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ORIGINAL RESEARCH

Notes for genera: *Ascomycota*

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Abstract Knowledge of the relationships and thus the classification of fungi, has developed rapidly with increasingly widespread use of molecular techniques, over the past 10–15 years, and continues to accelerate. Several genera have been found to be polyphyletic, and their generic concepts have subsequently been emended. New names have thus been introduced for species which are phylogenetically distinct from the type species of particular genera. The ending of the separate naming of morphs of the same species in 2011, has also caused

This paper is dedicated to the memory of K. Walter Gams, Hubertus Antonius van der Aa, Larissa N. Vasilyeva, E. Punithalingam and Vadim A. Mel'nik whose efforts contributed greatly to mycology.

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changes in fungal generic names. In order to facilitate access to all important changes, it was desirable to compile these in a single document. The present article provides a list of generic names of *Ascomycota* (approximately 6500 accepted names published to the end of 2016), including those which are lichen-forming. Notes and summaries of the changes since the last edition of 'Ainsworth & Bisby's Dictionary of the Fungi' in 2008 are provided. The notes include the number of accepted species, classification, type species (with location of the type material), culture availability, life-styles, distribution, and selected publications that have appeared since 2008. This work is intended to provide the foundation for updating the ascomycete component of the "Without prejudice list of generic names of *Fungi*" published in 2013, which will be developed into a list of protected generic names. This will be subjected to the XIXth International Botanical Congress in Shenzhen in July 2017 agreeing to a modification in the rules relating to protected lists, and scrutiny by procedures determined by the Nomenclature Committee for Fungi (NCF). The previously invalidly published generic names *Barriopsis*, *Collophora* (as *Collophorina*), *Cryomyces*, *Dematiopleospora*, *Heterospora* (as *Heterosporicola*), *Lithophila*, *Palmomyces* (as *Palmaria*) and *Saxomyces* are validated, as are two previously invalid family names, *Bartaliniaceae* and *Wiesneriomycetaceae*. Four species of *Lalaria*, which were invalidly published are transferred to *Taphrina* and validated as new combinations. *Catenomycopsis* Tibell & Constant. is reduced under *Chaenothecopsis* Vain., while *Dichomera* Cooke is reduced under *Botryosphaeria* Ces. & De Not. (Art. 59).

Keywords Article 59 · Classification · One name · Pleomorphic fungi · Taxonomy

Introduction

Knowledge of the taxonomy of fungi has been changing rapidly since the last edition of *Ainsworth & Bisby's Dictionary of the Fungi* (Kirk et al. 2008), as a consequence of new information from DNA and protein sequence studies, and the integration of asexual and sexual morphs into a unified system. Phylogenetic affiliations and taxonomic placements of a large number of genera are being clarified, and at the same time species complexes and generic circumscriptions are being resolved (Damm et al. 2012a, b; 2013; Choi et al. 2013a; Giraud et al. 2013; Nilsson et al. 2014; Udayanga et al. 2014a). Sequences are also increasingly being obtained from genera representing fungi with ecologies not previously well-represented in the system, such as rock-inhabiting (Egidi et al. 2014; Ertz et al. 2014b; Pérez-Ortega et al. 2015) and lichenicolous fungi (Trakunyingcharoen et al. 2014; Sipman and Raus 2015; Suija et al. 2015b, c), or from many which are

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uncultured or unculturable, the latter through new generation sequencing (Hodkinson and Lendemer 2013). In addition, neo- and epitypifications are enabling the application of historic species and genera to be accommodated into molecularly based systems (Zhang et al. 2008a, b; Ariyawansa et al. 2014b). Thus, major progress towards a natural classification system is being made (Hyde et al. 2017).

The ending of dual nomenclature for pleomorphic non-lichenized ascomycetes and basidiomycetes in 2011 (McNeill et al. 2011) has also led to a need to select the name to be adopted for pleomorphic genera. Lists of names are now being proposed for protection or suppression by working groups established under the auspices of the International Commission on the Taxonomy of Fungi (ICTF). The proposals from the working groups are being published and will then be scrutinized by the Nomenclature Committee for Fungi (NCF) and the General Committee (Art. 14.13) established by the last International Botanical Congress.

The problem is especially acute in the phylum *Ascomycota*, the largest in kingdom *Fungi*, with some 15 classes, 68 orders, 327 families, *ca*. 6300 genera, and over 64 000 species (Kirk et al. 2008). However, 1000-1500 new taxa are introduced each year, and our understanding of the *Ascomycota* has been developing rapidly. Keeping track of all the changes and the incorporation of so much new knowledge is a major challenge, though some important compilations have been prepared, for example those of Hyde et al. (2013) and Wijayawardene et al. (2014c) for *Dothideomycetes*, and Maharachchikumbura et al. (2015b, 2016b) for *Sordariomycetes*, which considered both asexually and sexually typified genera. Molecular clock analyses has also provided additional evidence for the placement of genera at the family, order and class levels (Phukhamsakda et al. 2016b; Samarakoon et al. 2016; Divakar et al. 2017; Hongsanan et al. 2016c, 2017; Hyde et al. 2017; Liu et al. 2017). There has also been a major attempt to produce an overall system for *Ascomycota* referring to accepted families down to genus level (Jaklitsch et al. 2016a).

The long-running series *Outline of the Ascomycota* (1982–1986) and *Notes on Ascomycete Systematics* (1986–2010) aimed to provide a current awareness system of novel taxa and changes proposed, and provided 5113 notes. This has not, however, been continued to include asexually typified genera. Here we start to redress this problem, taking the last edition of the *Dictionary* (Kirk et al. 2008) as our starting point. In addition to recent nomenclature changes, we include typification details of the type species of genera (including lecto-, neo- and epitypifications), information on the availability of cultures, and references to accessible sequence data. References to recently established DNA barcodes for plant pathogenic genera are also included where available.

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In addition to providing an overview of current knowledge on accepted genera of ascomycetes, this work is also intended to provide the foundation for updating the ascomycete component of the "Without prejudice list of generic names of *Fungi*" published in 2013 (Kirk et al. 2013), which is anticipated will be developed into a list of protected generic names. This will, however, be subjected to the XIXth International Botanical Congress in Shenzhen in July 2017 agreeing to a modification in the rules relating to protected lists of names supported by the 10th International Mycological Congress in 2014 (Redhead et al. 2014; Hawksworth 2015), and scrutiny by procedures determined by the Nomenclature Committee for Fungi (NCF).

In this study, we list 6540 accepted genera of ascomycetes with an estimate of over 80,000 species. They belong in 485 families, 115 orders and 17 classes. We have attempted to include all genera and place them in a natural classification using the most recent evidence and publications. We however, have surely missed some entries and may not have found all of the latest data. We therefore regard this as a working paper and will continually be updated it in our webpage www.fungalgenera.org. Suggestions for changes or omissions will be welcome and readers can contact the corresponding author.

Materials and Methods

Data collection

Collecting data on existing names of taxa in use was based on Kirk et al. (2008, 2013) and Species Fungorum (2016). The works of Sutton (1977, 1980) and Seifert et al. (2011) were also used for further clarification of nomenclatural issues for asexually typified genera. Previous outlines of sexually typified genera (i.e. Lumbsch and Huhndorf 2010) and asexually typified genera (i.e. Hyde et al. 2011; Wijayawardene et al. 2012, 2017) have been used to extract taxonomic placements. For the taxonomic placement of lichen-forming genera, the compilation of Lücking et al. (2017a, b) was used. The citation of the articles given in each entry was decided by the author who provided the entry and is not standardized. Synonyms of generic names (if less than 10) are also provided based on recent publications and Species Fungorum (2017).

One fungus: one name

Recent proposals on names to be selected for use in non-lichenized pleomorphic ascomycete genera were gathered from the reports of ICTF working groups (Table 1).

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Table 1 ICTF working groups and reports

Taxonomic group	Reference
Diaporthales	Rossman et al. (2015a)
Dothideomycetes	Hyde et al. (2013), Wijayawardene et al. (2014c), Rossman et al. (2015b, 2016a)
Hypocreales	Rossman et al. (2013b)
Leotiomycetes	Johnston et al. (2014b)
Magnaporthales	Zhang et al. (2016d)
Miscellaneous genera	Rossman et al. (2016a)
Pezizomycetes	Healy et al. (2016)
Sordariomycetes – (except *Diaporthales*, *Hypocreales*, and *Magnaporthales*)	Maharachchikumbura et al. (2015b, 2016a), Réblová et al. (2016c)
Xylariales	Stadler et al. (2014), Daranagama et al. (2017), Wendt et al. (2017)

Results

Validating of invalid families

Bartaliniaceae Wijayaw., Maharachch., P.M. Kirk & K.D. Hyde

Index Fungorum number: 551079

= *Bartaliniaceae* Wijayaw., Maharachch. & K.D. Hyde, *Fungal Diversity* **73**: 85. 2015, Nom. inval., Art. 42.1 (Melbourne)

Type: *Bartalinia* Tassi, Bulletin Labor. Orto Bot. de R. Univ. Siena 3: 4 (1900)

Description: see Senanayake et al. (2015)

Notes: Senanayake et al. (2015) introduced *Bartaliniaceae* but it is invalid (Art. 42.1) as the identifier cited in the protologue, (i.e. IF511183), was not issued for the name published (i.e. *Bartaliniaceae*). This identifier was issued for *Boletellus exiguus* T.W. Henkel & Fulgenzi 2008. A new identifier was obtained (i.e. 551079), thus *Bartaliniaceae* is herein validly published. However, Hongsanan et al. (2017a) treated this family as a synonym of *Sporocadaceae*.

Wiesneriomycetaceae Suetrong, Rungjindamai, Somrithipol. & E.B.G. Jones

Index Fungorum number: IF550306

= *Wiesneriomycetaceae* Suetrong, Rungjindamai, Somrithipol. & E.B.G. Jones, *Phytotaxa* 176(1): 288. 2014; Nom. inval., Art. 42.1 (Melbourne)

Type: *Wiesneriomyces* Koord., Verh. K. Akad. Wet., tweede sect. 13(4): 246 (1907) IF 10438

Description: see Suetrong et al. (2014)

Notes: Suetrong et al. (2014) introduced *Wiesneriomycetaceae* but it is invalid (Art. 42.1) as the identifier cited in the protologue, (i.e. MB809097), was not issued for the name published (i.e. *Wiesneriomycetaceae*). This identifier was issued for *Hypogymnia papilliformis* McCune, Tchabanenko & X.L. Wei 2015. A new identifier was obtained (i.e. IF550306), thus *Wiesneriomycetaceae* is herein validly published.

Notes for genera

Aabaarnia Diederich 2014, *Ostropales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *A. siphulicola* Diederich, asexual morph is unknown, lichenicolous, terrestrial, New Zealand and Tasmania, see Diederich (2014), holotype: UPS, James 992/1, sequences are unavailable.

Aaosphaeria Aptroot 1995, *Dacampiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. arxii* (van der Aa) Aptroot, asexual morph coelomycetous, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Dacampiaceae*), Kirk et al. (2013; genus accepted), sequence available for the type: KU158145 (ITS) (unpublished).

Abropelta B. Sutton 1986, *Ascomycota* genera *incertae sedis*, one species, type: *A. fusarioides* B. Sutton, coelomycetous, sexual morph unknown, caulicolous, terrestrial, India, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: IMI 236263.

Abrothallus De Not. 1845 (= *Abrothallomyces* Cif. & Tomas. 1953; = *Phymatopsis* Tul. ex Trevis. 1857; = *Pseudolecidea* Marchand 1896; = *Vouauxiomyces* Dyko & D. Hawksw. 1979 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Abrothallaceae*, *Abrothallales*,

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Dothideomycetes, c. 40 species, type: *A. bertianus* De Not., obligately lichenicolous, parasymbiontic or parasitic on macrolichens from several families of lichen-forming fungi, sexual morph with apothecioid ascomata, asexual morph coelomycetous, some species are known only either by their asexual or sexual morph, terrestrial, worldwide, see Pérez-Ortega et al. (2011b, 2014; sexual-asexual connection, phylogeny), Suija et al. (2015a; phylogeny, key for species on *Peltigerales*), Rossman et al. (2016a; nomenclature), holotype of the type: likely in VER or RO. the species growing on *Parmeliaceae* are in urgent need of revision, preliminary molecular data suggest that current species delimitation, largely based on the host identity is inaccurate (Pérez-Ortega and Suija, data not published).

Absconditella Vězda 1965, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, twelve species, type: *A. sphagnorum* Vězda & Poelt, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Abyssomyces Kohlm. 1970, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. hydrozoicus* Kohlm., saprobes, asexual morph unknown, marine, Scotland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Acallomyces Thaxt. 1903, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *A. homalotae* Thaxt., asexual morph unknown, biotrophic on *Coleoptera* in decaying agarics (Staphylinidae), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), morphologically related to *Polyascomyces* Thaxter, cultures and sequences are unavailable.

Acanthogymnomyces Udagawa & Uchiy. 2000, *Eoterfeziaceae*, *Ascomycota* families *incertae sedis*, one species, type: *A. terrestris* Udagawa & Uchiy., asexual morph unknown, from soil, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), sequences are unavailable, holotype of the type: CBM SUM3162.

Acanthohelicospora Boonmee & K.D. Hyde 2014, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, four species, type: *A. pinicola* Boonmee & K.D. Hyde, saprobes, worldwide, asexual morph hyphomycetous, see Boonmee et al. (2014b; taxonomy, phylogeny), Rossman et al. (2016b; plant pathogens, new combinations), holotype and ex-type: MFLU 10-0049, MFLUCC 10-0116 =BCC 52036.

Acanthonitschkea Speg. 1908 (= *Euacanthe* Theiss. 1917; = *Fitzpatrickia* Cif. 1928; = *Hystrix* Alstrup & Olech 1993; = *Petelotia* Pat. 1924; = *Sydowinula* Petr. 1923 *fide* Species Fungorum 2017), *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, nine species, type: *A. argentinensis* Speg., asexual morph acremonium-like, saprobes and on lichens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; DNA), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Acanthophiobolus Berl. 1893 (= *Ophiobolus* subgen. *Ophiochaeta* Sacc. 1883; = *Ophiochaeta* (Sacc.) Sacc. 1895; = *Ophiosphaeria* Kirschst. 1907 [1906]; = *Ophiotrichia* Berl. 1893 *fide* Species Fungorum 2017), *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, three species, type: *A. helminthosporus* (Rehm) Berl., asexual morph unknown, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline), Boonmee et al. (2011, 2014b; accepted as a genus in *Tubeufiaceae*), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Acanthorus Bat. & Cavalc. 1967, *Ascomycota* genera *incertae sedis*, one species, type: *A. maranhensis* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes*), Wijayawardene et al. (2017) and in here we treat this genus as *Ascomycota* genera *incertae sedis* since cultures and sequences are unavailable.

Acanthosphaeria Kirschst. 1939, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, two species, type: need typification, asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Acanthostigma De Not., 1863, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, 64 species, type: *A. perpusillum* de Not., saprobes on dead wood, widespread, asexual morph hyphomycetous, see Lumbsch and Huhndorf (2010; outline), Boonmee et al. (2011, 2014b; accepted as a genus in *Tubeufiaceae*), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available for three species, strains available for type: UAMH 7237.

Acanthostigmella Höhn., 1905, *Dothideomycetes* genera *incertae sedis*, six species, type: *A. genuflexa* Höhn., asexual morph unknown, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Tubeufiaceae*), Boonmee et al. (2011; accepted as a genus in *Tubeufiaceae*), Hyde et al. (2013) and Boonmee et al. (2014b) did not accept as a genus in *Tubeufiaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Acanthostigmina Höhn. 1909, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, three species, type: *A. minuta* (Fuckel) Clem. & Shear, saprobes on decaying

wood, cosmopolitan, see Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; taxonomy), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Acanthotheciella Höhn. 1911 (= *Acanthotheca* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. barbata* (Pat.) Höhn., asexual morph unknown, on dead scale insects, terrestrial, Asia, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Acanthothecis Clem. 1909 (= *Acanthographina* (Vain.) Walt. Watson 1929; = *Acanthographis* (Vain.) Walt. Watson 1929; = *Acanthotheciopsis* Zahlbr. 1923 [1924]; = *Acanthothecium* Vain. 1890; = *Acanthothecium* sect. *Acanthographina* Vain. 1890; = *Acanthothecium* sect. *Acanthographis* Vain. 1890; *Acanthothecomyces* Cif. & Tomas. 1953; = *Psorographis* Clem. 1909 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 56 species, type: *A. hololeucoides* (Nyl.) Staiger & Kalb, all with ascomata, lichenized (*Trenthepohlia*), terrestrial (mainly corticolous), pantropical-subtropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rivas Plata et al. (2013; taxonomy), Lumbsch et al. (2014a, b; taxonomy), Lücking et al. (2017a; classification), polyphyletic, sequences are available.

Acanthotrema Frisch 2006, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *A. brasilianum* (Hale) Frisch, lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rivas Plata et al. (2010a, 2012a; key), Sipman et al. (2012; key), sequences are available.

Acarella Syd. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *A. costaricensis* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central America, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Acarellina Bat. & H. Maia 1960, *Ascomycota* genera *incertae sedis*, one species, type: *A. psidii* Bat. & H. Maia, coelomycetous, sexual morph unknown, epiphytes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acaroconium Kocourk. & D. Hawksw. 2008, *Ascomycota* genera *incertae sedis*, one species, type: *A. punctiforme* Kocourk. & D. Hawksw., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Europe, North America, see Kocourková and Hawksworth (2008; taxonomy), Wijayawardene et al. (2016b, 2017; taxonomy, outline), holotype of the type: PRM 8926543, cultures and sequences are unavailable, some lichenicolous *Microsphaeropsis* species may belong to this genus.

Acarocybe Syd. 1937, *Ascomycota* genera *incertae sedis*, three species, type: *A. hansfordii* Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Central America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acarocybellina Subram. 1992, *Ascomycota* genera *incertae sedis*, one species, type: *A. arengae* (Matsush.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acarocybiopsis J. Mena, A. Hern.-Gut. & Mercado 1999, *Ascomycota* genera *incertae sedis*, one species, type: *A. cubitaensis* J. Mena, A. Hern. Gut. & Mercado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acaropeltis Petr. 1937, *Ascomycota* genera *incertae sedis*, one species, type: *A. costaricensis* Petr., coelomycetous, sexual morph unknown, on living leaves, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acarospora A. Massal. 1852, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, c. 200 species, type: *A. schleicheri* (Ach.) A. Massal. all with ascomata, lichenized (green algae), terrestrial (mostly saxicolous or terricolous), cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Westberg et al. (2015; phylogeny), Lücking et al. (2017a; classification), polyphyletic, sequences are available.

Acarosporina Sherwood 1977, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *A. monilifera* (Ellis & Everh.) Sherwood, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Acaulium Sopp 1912 (= *Acaulium* Sopp 1912; = *Masonia* G. Sm. 1952; = *Masoniella* G. Sm. 1952; = *Phaeoscopulariopsis* M. Ota 1928 *fide* Species Fungorum 2017), *Microascaceae*, *Microascales*, *Sordariomycetes*, three species, type: *A. albonigrescens* Sopp, hyphomycetous, the genus was treated as a synonym of *Scopulariopsis* Bainier 1907 (*fide* Seifert et al. 2011), Sandoval-Denis et al. (2016b; phylogeny, reinstated the genus, new species), cultures and sequences are available.

Acephala Grünig & T.N. Sieber 2005, *Vibrisseaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *A. applanata* Grünig & T.N. Sieber, hyphomycetous, sexual morph unknown, from fine roots of Pinus, terrestrial, Germany, Switzerland, see Munzenberger et al. (2009; morphology, new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), ex-type strain of the type: CBS 109321.

Acerbiella Sacc. & D. Sacc. 1905, *Sordariomycetes* genera *incertae sedis*, two species, type: *A. macrospora* (Rick) Sacc. & D. Sacc., asexual morph unknown, saprobes, terrestrial, South America, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Acerviclypeatus Hanlin 1990, *Ascomycota* genera *incertae sedis*, one species, type: *A. poriformans* Hanlin, coelomycetous, sexual morph unknown, on living leaves of *Vaccinium*, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acervuloseptoria Crous & Jol. Roux 2014, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *A. ziziphicola* Crous & Jol. Roux, coelomycetous, sexual morph unknown, associated with leaf spots, terrestrial, South Africa, see Crous et al. (2014c, 2015c; morphology and phylogeny), holotype and ex-type culture of type: CBS H-21723, CPC 23707.

Acervus Kanouse 1938 (= *Phaedropezia* Le Gal 1953 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, eight species, type: *A. aurantiacus* Kanouse, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhuang et al. (2011; morphology, taxonomy), Kirk et al. (2013; genus accepted), Ekanayaka et al. (2016d; new species, China), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacking for the type species.

Achaetobotrys Bat. & Cif. 1963, *Antennulariellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *A. affinis* (L.R. Fraser) Bat. & Cif., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Antennulariellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Achaetomium J.N. Rai, J.P. Tewari & Mukerji 1964, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, 13 species, asexual morph unknown, type: *A. globosum* J.N. Rai & J.P. Tewari, saprobes, terrestrial, Asia, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequence are available.

Achorella Theiss. & Syd. 1915, *Dothideomycetes* genera *incertae sedis*, ten species, type: *A. ametableta* (Rehm) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Achorodothis Syd. 1926, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *A. poasensis* Syd., asexual morph unknown, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Achoropeltis Syd. 1929, *Ascomycota* genera *incertae sedis*, one species, type: *A. modesta* Syd., coelomycetous, saprobes, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Achroceratosphaeria Réblová, J. Fourn., K.D. Hyde & Ranghoo 2010, *Pisorisporiaceae*, *Pisorisporiales*, *Sordariomycetes*, two species, type: *A. potamia* Réblová, Fournier & K.D. Hyde, asexual morph unknown, saprobes, aquatic, Europe, see Réblová et al. (2010; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype and ex-type of the type: PRM 915719, CBS 125414.

Achroiostachys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *A. humicola* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, from soil, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22420, CBS 868.73.

Aciascus Doweld 2013, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *A. purpureus* (Thaxt. ex Currah) Doweld, asexual morph unknown, saprobes, USA, see Index Fungorum (2013; introduced to replace *Acitheca* Currah 1985), Wijayawardene et al. (2017; outline).

Aciculoconidium D.S. King & S.C. Jong 1976, *Metschnikowiaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *A. aculeatum* (Phaff, M.W. Mill. & Shifrine) D.S. King & S.C. Jong, asexual morph unknown (budding of cells and formation of true hyphae with blastoconidia), saprophytes, isolated from fruit flies (*Drosophila* spp.), terrestrial, California, USA, see Kirk et al. (2013; genus accepted), cultures and sequences are available.

Aciculopsora Aptroot & Trest 2006, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *A. salmonea* Aptroot & Trest, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf

(2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), holotype of the type: CR, Lücking 17543, cultures and sequences are unavailable.

Aciculosporium I. Miyake 1908 (= *Albomyces* I. Miyake ex I. Hino 1908; = *Mitosporium* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, seven species, type: *A. take* I. Miyake, asexual morph unknown, saprobes, terrestrial, Asia, see Tanaka (2009; in situ visualization), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Acicuseptoria Quaedvl., Verkley & Crous 2013, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. rumicis* Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, saprobes, one species, France, see Quaedvlieg et al. (2013; morphology and phylogeny), holotype and ex-type culture of type: CBS H-18163, CPC 522.78.

Acidea Hujslová & M. Kolařík 2014, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. extrema* Hujslová & M. Kolařík, hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, Europe, Antarctica, see Hujslová et al. (2014; morphology, phylogeny), holotype and ex type of the type: PRM 922617, CBS 136258.

Acidiella Hujslová & M. Kolařík 2013, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *A. bohemica* Hujslová & M. Kolařík, hyphomycetous, sexual morph unknown, saprobes, terrestrial and aquatic, Europe, Australia, see Hujslová et al. (2013; morphology, phylogeny), Kolařík et al. (2015a; new species), holotype and ex-type of cultures of the type: PRM 859933, CBS 132721.

Acidomelania E. Walsh & N. Zhang 2014, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. panicicola* E. Walsh & N. Zhang, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Walsh et al. (2014; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: RUTPP 61R8.

Acidomyces B.J. Baker, M.A. Lutz, S.C. Dawson, P.L. Bond & Banfield ex Selbmann, de Hoog & De Leo 2008 (= *Acidomyces* B.J. Baker, M.A. Lutz, S.C. Dawson, P.L. Bond & Banfield, Appl. 2004 *fide* Species Fungorum 2017), *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *A. acidophilus* (Sigler & J.W. Carmich.) Selbmann, de Hoog & De Leo, hyphomycetous, sexual morph unknown, from soil, terrestrial, aquatic, Worldwide, see Selbmann et al. (2008; morphology; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Hujslová et al. (2013; taxonomy), holotype and ex-type of the type: UAMH 3460, CBS 270.74.

Acidothrix Hujslová & M. Kolařík 2014, *Amplistromataceae*, *Amplistromatales*, *Sordariomycetes*, one species, type: *A. acidophila* Hujslová & M. Kolařík, hyphomycetous, sexual morph unknown, in highly acidic soil, terrestrial, Czech Republic, see Hujslová et al. (2014; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type species: PRM 922615, CBS 136259.

Acleistia Bayl. Ell. 1917, *Ascomycota* genera *incertae sedis*, one species, type: *A. alniella* Bayl. Ell., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Acolium (Ach.) Gray 1821 (= *Acolium* Trevis. 1862; = *Calicium* subdiv. Acolium Ach. 1808; = *Crateridium* Trevis. 1862; = *Cypheliomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Mycacolium* Reinke 1895; = *Pseudacoliomyces* Cif. & Tomas. 1953; = *Pseudacolium* Stizenb. ex Clem. 1909 *fide* Species Fungorum 2017), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, five species, type: *Calicium tympanellum* Ach. (lectotype, designated by) (= *Acolium inquinans* (Sm.) A. Massal.), lichenized, see Gaya et al. (2012; taxonomy), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Acompsomyces Thaxt. 1901, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, six species, type: *A. corticariae* Thaxt., asexual morph unknown, biotrophic on *Coleoptera* (Cryptophagidae and Lathridiidae), America, Europe, probably worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acontium Morgan 1902, *Ascomycota* genera *incertae sedis*, four species, type: *A. album* Morgan, see Seifert et al. (2011; mentioned as a doubtful genus), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Acremoniopsis Giraldo, Gené & Guarro 2014, *Hypocreales*, genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. suttonii* Giraldo, Gené & Guarro, hyphomycetous, sexual morph unknown, from soil, terrestrial, see Crous et al. (2014d; taxonomy), Maharachchikumbura et al. (2015b, 2016b), holotype and ex-type: CBS H-21936, CBS 138708.

Acremoniula G. Arnaud ex Cif. 1962 (= *Acremoniula* G. Arnaud 1954 [1953] nom. inval. *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, five species, type: *A. sarcinellae* (Pat. & Har.) G. Arnaud ex Deighton, hyphomycetous, sexual morph unknown, saprobes,

terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acremonium Link 1809, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 150 species, type: *A. alternatum* Link, hyphomycetous, sexual morph unknown, saprobes, lichenicolous, cosmopolitan, see Weisenborn et al. (2010; new species), Gräfenhan et al. (2011; overview), Kiyuna et al. (2011; new species), Seifert et al. (2011; morphology), Summerbell et al. (2011; overview), Giraldo et al. (2012, 2014c; new species, phylogeny), von Brackel et al. (2012; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Lynch et al. (2016; new species), cultures and sequences are available.

Acrocalymma Alcorn & J.A.G. Irwin 1987, *Acrocalymmaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *A. medicaginis* Alcorn & J.A.G. Irwin, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Zhang et al. (2012a; new species, phylogeny), Kirk et al. (2013; genus accepted), Trakunyingcharoen et al. (2014; phylogeny, introduced Acrocalymmaceae), Wijayawardene et al. (2014c, 2017; outline), cultures and sequences are available for the type species.

Acroconidiella J.C. Lindq. & Alippi 1964, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *A. tropaeoli* (T.E.T. Bond) J.C. Lindq. & Alippi, hyphomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Acroconidiellina M.B. Ellis 1971 (= *Zeuctomorpha* Sivan. et al. 1984 *fide* Rossman et al. 2016a), *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, four species, type: *A. loudetiae* M.B. Ellis, hyphomycetous, sexual morph formerly known in *Zeuctomorpha*, widespread (especially in tropical regions), see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Acrocordia A. Massal. 1854 (= *Acrocordiomyces* Cif. & Tomas. 1953; = *Amphididymella* Petr. 1928 *fide* Species Fungorum 2017), *Monoblastiaceae*, *Monoblastiales*, *Dothideomycetes*, ten species, type: *A. gemmata* (Ach.) A. Massal., asexual morph unknown, lichenized, terrestrial, temperate, placement in *Monoblastiaceae* supported by molecular data, see Nelsen et al. (2009, 2011b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available but lacking for the type species.

Acrocordiella O.E. Erikss 1982, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, one species, type: *A. occulta* (Romell) O.E. Erikss, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acrocordiopsis Borse & K.D. Hyde 1989, *Salsugineaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. patilii* Borse & K.D. Hyde, asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Melanommataceae*), Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b, 2015; classification), Alias and Jones (2009, monograph), Besitulo et al. (2010; diversity), Pang et al. (2010b; diversity, Malaysia), Zainuddin et al. (2010; antimicrobial activities), Sakayaroj et al. (2011b; diversity, Thailand), Lee et al. (2012; checklist, Malaysia), Zhang et al. (2012e; phylogeny, morphology), Hyde et al. (2013; phylogeny), Samón-Legrá et al. (2014; diversity), Tian et al. (2015; morphology, phylogeny), holotype of type: IMI 297769, available cultures of type: BCC 28167, BCC 28166.

Acrodictyella W.A. Baker & Partr. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *A. obovata* W.A. Baker & Partr., hyphomycetous, sexual morph unknown, wood decaying, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Acrodictyopsis P.M. Kirk 1983, *Ascomycota* genera *incertae sedis*, one species, type: *A. lauri* P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Acrodictys M.B. Ellis1961, *Sordariomycetidae* genera *incertae sedis*, 22 species, type: *A. bambusicola* M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Zhao et al. (2011a; descriptions of *Acrodictys* and related genera from China), Ma et al. (2014b; new species), sequences are available.

Acrodontiella U. Braun & Scheuer 1995, *Ascomycota* genera *incertae sedis*, one species, type: *A. fallopiae* U. Braun & Scheuer, hyphomycetous, sexual morph unknown, terrestrial, folicolous, associated with leaf-spots, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of type: GZU 294903, cultures and sequences are unavailable.

Acrodontium de Hoog 1972, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, 13 species, type: *A. crateriforme* (J.F.H. Beyma) de Hoog, hyphomycetous, sexual morph unknown, saprobes, cosmopolitan, see Seifert et al. (2011; morphology), Crous et al. (2014c; new species), Videira et al. (2016; phylogeny), Wijayawardene et al. (2017; outline), ex-type of the type: CBS 144.33 =ATCC 15679.

Acrogenospora M.B. Ellis 1971 (= *Farlowiella* Sacc. 1891 *fide* Rossman et al. 2015b), *Pleosporomycetidae*, genera *incertae sedis*, *Dothideomycetes*, nine species, type: *A. sphaerocephala* (Berk. & Broome) M.B. Ellis, hyphomycetous, sexual morph formerly known in *Farlowiella*, saprobes, cosmopolitan, see Hu et al. (2010b; new species), Seifert et al. (2011; morphology), Rossman et al. (2015b; nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Acrogenotheca Cif. & Bat. 1963 (= *Laterotheca* Bat. 1963 *fide* Species Fungorum 2017), *Trichopeltinaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *A. pulcherrima* Bat. & Cif., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Acrogynomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, six species, type specie: *A. eumicri* Thaxt, parasitic on African scydmaenid genus *Eumicrus*, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acrophialophora Edward 1961 (= *Taifanglania* Z.Q. Liang, Y.F. Han, H.L. Chu & R.T.V. Fox 2009 *fide* Zhang et al. 2015b), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, six species, type: *A. nainiana* Edward, sexual morph unknown, pathogen, terrestrial, worldwide, thermo-tolerant, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2016b; outline), Kirk et al. (2013; genus accepted), Sandoval-Denis et al. (2015a; clinical aspects), Zhang et al. (2015b; DNA), ex-isotype of type: CBS 100.60, ex-type culture of type: ATCC 22555, IMI 076567.

Acrophragmis Kiffer & Reisinger 1970, *Ascomycota* genera *incertae sedis*, three species, type: *A. coronata* Kiffer & Reisinger, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acroscyphus Lév. 1846, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *A. sphaerophoroides* Lév., lichenized, terrestrial (saxicolous), Americas, Asia, Africa, see Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Acrospeira Berk. & Broome 1857 (= *Spirospora* L. Mangin & Vincens 1920 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *A. mirabilis* Berk. & Broome, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acrospermoides J.H. Mill. & G.E. Thomps. 1940, *Sordariomycetes* genera *incertae sedis*, two species, type: *A. subulata* J.H. Mill. & G.E. Thomps., asexual morph unknown, saprobes, terrestrial, Greece, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Acrospermum Tode 1790 (= *Scleroglossum* Fr. 1874; = *Xyloglossum* Pers. 1818 *fide* Species Fungorum 2017), *Acrospermaceae*, *Acrospermales*, *Dothideomycetes*, eleven species, type: *A. compressum* Tode, asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; phylogeny), Hyde et al. (2013; morphology, phylogeny), Kirk et al. (2013 genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available for type species.

Acrostalagmus Corda 1838, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, three species, type: *A. cinnabarinus* Corda, hyphomycetous, sexual morph unknown, widespread, see Wijayawardene et al. (2012, 2017; outline), Réblová et al. (2011; DNA, phylogeny), cultures and sequences are available.

Acrostaurus Deighton & Piroz. 1972, *Ascomycota* genera *incertae sedis*, one species, type: *A. turneri* Deighton & Piroz., asexual morph unknown, fungicolous, saprobes, widespread especially in tropical regions, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Actidiographium Lar. N. Vassiljeva 2000, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, one species, type: *A. orientale* Lar & Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate, see Boehm et al. (2009a; accepted as in *Hysteriaceae*), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mytilinidiaceae*), Wijayawardene et al. (2014c; outline), holotype: VLA P-2938, cultures and sequences are unavailable.

Actidium Fr. 1815 (= *Bulliardella* (Sacc.) Paoli 1905; = *Mytilinidion* subgen. *Bulliardella* Sacc. 1883; = *Ostreionella* Seaver 1926 *fide* Species Fungorum 2017),

Mytilinidiaceae, *Mytilinidiales*, *Dothideomycetes*, nine species, type: *A. hysterioides* Fr., asexual morphs unknown, saprobes, terrestrial, Europe, North America, see Boehm et al. (2009a, b; accepted as a genus in *Mytilinidiaceae*), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as in *Mytilinidiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Actinocladium Ehrenberg 1819, *Ascomycota* genera *incertae sedis*, eight species, type: *A. rhodosporum* Ehrenb., hyphomycetous, sexual morph unknown, pathogen of wood and bark of fallen twigs and trunk, worldwide, mainly Europe, Asia, Africa, Caribbean, see Manoharachary et al. (2010; two new species), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Actinocymbe Höhn. 1911 (= *Limaciniella* J.M. Mend. 1925 *fide* Species Fungorum 2017), *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, three species, type: *A. separato-setosa* (Henn.) Höhn., asexual morph unknown, parasitic, epiphyllous to hypophyllous, terrestrial, temperate to tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Actinomyxa Syd. & P. Syd. 1917, *Dothideomycetes* genera *incertae sedis*, one species, type: *A. australiensis* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013) did not accept as a genus in *Microthyriaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Actinoplaca Müll. Arg. 1891 (= *Actinoplacomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *A. strigulacea* Müll. Arg., lichenized, terrestrial (folicolous), tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Actinotexis Arx 1960, *Ascomycota* genera *incertae sedis*, one species, type: *A. mirabilis* Berk. & Broome, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Actinothecium Flot. 1855 (see Species Fungorum 2017 for synonyms), *Ascomycota* genera *incertae sedis*, five species, type: *A. caricicola* Ces., coelomycetous, sexual morph unknown, widespread, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Actinothyrium Kunze 1823, *Ascomycota* genera *incertae sedis*, ten species, type: *A. graminis* Kunze ex Fr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Acumispora Matsush. 1980, *Ascomycota* genera *incertae sedis*, four species, type: *A. uniseptata* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Adautomilanezia Gusmão, S.S. Silva, Fiuza, L.A. Costa, T.A.B. Santos 2016, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *A. caesalpiniae* Gusmão, S.S. Silva, Fiuza, L.A. Costa, T.A.B. Santos, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Crous et al. (2016a; taxonomy, phylogeny), holotype and ex-type: HUEFS216632, CCLAMIC 102/12.

Adelococcus Theiss. & Syd. 1918, *Adelococcaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *A. alpestris* (Zopf) Theiss. & Syd., asexual morph unknown, lichenicolous, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Adelodiscus Syd. 1931, *Leotiomycetes* genera *incertae sedis*, three species, type: *A. philippinensis* Syd., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, need generic revision.

Adelolecia Hertel & Hafellner in Hafellner 1984 (= *Lecideomyces* E.A. Thomas ex Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, four species, type: *A. pilati* (Hepp) Hertel & Hafellner, all with ascomata, lichenized (green algae), terrestrial (saxicolous, rarely corticolous), temperate regions of both Hemispheres, Ekman et al. (2008; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Adelosphaeria Réblová 2016 [2017], *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, one species, type: *A. catenata* Réblová, asexual morph hyphomycetous, saprobes, terrestrial, Czech Republic, see

Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2017; taxonomy), holotype and ex-type: PRM 933853, CBS 138679.

Aderkomyces Bat. 1961, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, c. 30 species, type: *A. couepiae* Bat, with ascomata, lichenized (green algae), terrestrial (foliicolous or corticolous), tropical, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type.

Adomia S. Schatz 1985, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. avicenniae* S. Schatz, saprobes, on mangrove wood, saprobe, Australia, Egypt, Red Sea, Thailand, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; morphology, outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Aequabiliella Crous 2015, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, coelomycetous, sexual morph unknown, one species, type: *A. effusa* (Damm & Crous) Crous in necrotic wood of *Prunus persica*, pathogens, terrestrial, South Africa, see Damm et al. (2010b as *Phaeomoniella effusa* Damm & Crous, morphology), Crous et al. (2015d; phylogeny), holotype and ex-type culture of type: CBS H-19998, CBS 120883.

Aeruginoscyphus Dougoud 2012, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *A. sericeus* (Alb. & Schwein.) Dougoud, asexual morph unknown, saprobes, terrestrial, Europe, see Dougoud (2012; taxonomy), cultures and sequences are unavailable.

Agaricodochium X.J. Liu 1981, *Ascomycota* genera *incertae sedis*, one species, type: *A. camelliae* X.J. Liu, A.J. Wei & S.G. Fan, hyphomycetous, on leaves of *Camellia oleosa*, pathogen of *Camellia oleiferra*, terrestrial, Zhejiang, China, see Guang-yu et al. (2008; control), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Fangyan et al. (2013; control), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Agarwalomyces R.K. Verma & Kamal 1987, *Ascomycota* genera *incertae sedis*, one species, type: *A. indicus* R.K. Verma & Kamal, hyphomycetous, on fruit of *Lythraceae*, terrestrial, India, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Aggregatorygma M. Cáceres, Aptroot & Lücking 2014, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *A. triseptatum* M. Cáceres, Aptroot & Lücking, lichenized, see Cáceres et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Agonimia Zahlbr. 1909 (= *Agonimiella* H. Harada 1993 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, c. 17 species, type: *A. tristicula* (Nyl.) Zahlbr., asexual morph unknown, lichenized, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Muggia et al. (2010a; DNA), Dymytrova et al. (2011; new species), Guzow-Krzemińska et al. (2012; new species), Aptroot and Cáceres (2013; new species), Harada (2013; new species, Japan), Kirk et al. (2013; genus accepted), Kondratyuk (2015; new species), Lücking and Moncada (2017; taxonomy and phylogeny), cultures available for the type: L469 (*fide* Muggia et al. 2010a).

Agrabeeja Subram. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *A. kavakapriya* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Singapore, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype MUBL 3140.

Agyriella Sacc. 1884, *Ascomycota* genera *incertae sedis*, two species, type: *A. nitida* (Lib.) Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Agyriellopsis Höhn. 1903, *Ascomycota* genera *incertae sedis*, three species, type: *A. caeruleoatra* Höhn., coelomycetous, sexual morph unknown, Europe see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Agyrium Fr. ex Fr. 1822 (= *Agyrium* Fr. 1821 nom. inval.; = *Exogone* Henn. 1908; = *Myxomphalos* Wallr. 1833 *fide* Species Fungorum 2017), *Pertusariaceae*, *Pertusariales*, *Lecanoromycetes*, three species, type: *A. rufum* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Kirk et al. (2013; genus accepted), Resl et al. (2015; DNA), cultures and sequences are available.

Ahmadia Syd. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *A. pentatropidis* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Pakistan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ahtiana Goward 1986, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *A. sphaerosporella* (Müll. Arg.) Goward, all with ascomata, lichenized (green algae), terrestrial (corticolous, epixylic), western North America, see Thell et al. (2009; phylogeny), Nelsen et al.

(2011a; phylogeny), Miądlikowska et al. (2014a; phylogeny), Divakar et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Aigialus Kohlm. & S. Schatz 1986, *Aigialaceae*, *Pleosporales*, *Dothideomycetes*, asexual morph unknown, five species, type: *A. grandis* Kohlm. & Schatz, saprobes, marine, worldwide, see Alias and Jones (2009; monograph), Jones et al. (2009b, 2012, 2015; classification, outline, review), Schoch et al. (2009; phylogeny), Suetrong et al. (2009, 2011a, b, 2014; phylogeny, morphology), Zhang et al. (2009a, 2012e; phylogeny), Isaka et al. (2009; secondary metabolites), Nambiar (2009; taxonomy), Nambiar and Raveendran (2009; diversity), Nambiar et al. (2009; diversity), Zainuddin et al. (2010; antimicrobial activities), Besitulo et al. (2010; diversity), Lumbsch and Huhndorf (2010; outline), Pang et al. (2010b, 2011b, 2013a; diversity, phylogeny), Sakayaroj et al. 2011b; diversity), Josphine et al. (2011; diversity), Liu et al. (2011b, 2015a; phylogeny, morphology), Boonmee et al. (2012; phylogeny), Dai et al. (2012; phylogeny), Lee et al. (2012; checklist), Pang and Jheng (2012a; checklist), Hyde et al. (2013; phylogeny, morphology, outline), Ariyawansa et al. (2014a, c; phylogeny), Kocharin et al. (2013; optimization), Sivakumar (2013; review), Sarma and Raghukumar (2013; diversity), Gnavi et al. (2014, phylogeny), Phookamsak et al. (2014c, 2015a; phylogeny), Wijayawardene et al. (2014c; outline), Shearer et al. (2014; phylogeny), Pratibha and Prabhugaonkar (2015; phylogeny), Shen et al. (2015; secondary metabolites), Doilom et al. (2017; phylogeny), holotype: J.K. 4332a (IMS), ex-isotype strain J.K.4332b (NY).

Ainoa Lumbsch & I. Schmitt 2001, *Baeomycetaceae*, *Baeomycetales*, *Lecanoromycetes*, three species, type: *A. geochroa* (Körb.) Lumbsch & Schmitt, ascomata apotheciate, conidiomata pycnidial, lichen-forming, saxicolous or terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Resl et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Aithaloderma Syd. & P. Syd. 1913 (= *Asbolisia* Bat. & Cif. 1963; = *Blastocapnias* Cif. & Bat. 1963; *Chaetopotius* Bat. 1951; = *Hypocapnodium* Speg. 1918; = *Phaeochaetia* Bat. & Cif. 1962; = *Vertixore* V.A.M. Mill. & Bonar 1941 *fide* Species Fungorum 2017), *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, 15 species, type: *A. clavatisporum* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2011), Hyde et al. (2013) and Wijayawardene et al. (2014c) did not accept as a genus in *Capnodiaceae*, Kirk et al. (2013; outline, genus accepted), cultures and sequences are unavailable.

Aivenia Svrček 1977, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *A. tantula* Svrček, asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ajrekarella Kamat & Kalani 1964, *Ascomycota* genera *incertae sedis*, one species, type: *A. polychaetriae* Kamat & Kalani, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Akanthomyces Lebert 1858, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, c. 13 species, type: *A. aculeatus* Lebert, hyphomycetous, sexual morph unknown, saprobes, on insects and spiders, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures and sequences are available.

Alanphillipsia Crous & M.J. Wingf. 2013, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, five species, type: *A. aloes* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes or possibly pathogenic, associated with leaf lesions, South Africa, see Crous et al. (2013b, 2014d; morphology), Wijayawardene et al. (2016b, 2017; outline, morphology, phylogeny), Dissanayake et al. (2016b; phylogeny), holotype and ex-type: CBS H-21418, CPC 21298.

Alascospora Raja, Violi & Shearer 2010, *Dothideomycetes*, genera *incertae sedis*, one species, type: *A. evergladensis* Raja, Violi & Shearer, asexual morph unknown, saprobes, aquatic, USA, see Raja et al. (2010c; morphology), Wijayawardene et al. (2014c; outline), holotype of the type: ILL 40789, cultures and sequences are unavailable.

Alatosessilispora K. Ando & Tubaki 1984, *Ascomycota* genera *incertae sedis*, one species, type: *A. bibrachiata* K. Ando & Tubaki, hyphomycetous, sexual morph unknown, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available for the type, need generic revision.

Alatospora Ingold 1942, *Leotiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *A. acuminata* Ingold, hyphomycetous, sexual morph unknown, saprobes, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Baschien et al. (2013; DNA), Kirk et al. (2013; genus accepted),

Duarte et al. (2015; DNA), neotype of type: IMI 222997, available cultures of the type: CCM Fl2186.

Albertiniella Kirschst. 1936, *Cephalothecaceae*, *Sordariomycetes*, families *incertae sedis*, one species, type: *A. reticulata* Kirschst., asexual morph acremonium-like, saprobes, terrestrial, Europe, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures available for the type: NBRC 9424.

Albifimbria L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *A. verrucaria* (Alb. & Schwein.) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, from soil, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), cultures and sequences are available.

Albonectria Rossman & Samuels 1999, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, type: *A. rigidiuscula* (Berk. & Broome) Rossman & Samuels, one species, asexual morph hyphomycetous, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Zhao et al. (2011b; phylogeny), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Alborbis Senan. & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. galericulata* (Tul. & C. Tul.) Senan. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), holotype of the type: NYBG 02929068, cultures and sequences are available.

Albosynnema E.F. Morris 1967, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *A. elegans* E.F. Morris 1967, asexual morph hyphomycetous, America, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2016; phylogeny), cultures and sequence are available.

Albotricha Raitv. 1970, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, c. 19 species, type: *A. acutipila* (P. Karst.) Raitv., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Alciphila Harmaja 2002, *Ascomycota* genera *incertae sedis*, one species, type: *A. vulgaris* Harmaja, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Aldona Racib. 1900, *Parmulariaceae*, *Dothideomycetes*, families *incertae sedis*, three species, type: *A. stella-nigra* Racib., asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), Tian et al. (2016a; taxonomy), cultures and sequences are unavailable.

Aldonata Sivan. & A.R.P. Sinha 1989, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *A. pterocarpi* Sivan. & A.R.P. Sinha, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), Tian et al. (2016a; taxonomy), cultures and sequences are unavailable.

Alectoria Ach. 1809 (= *Alectoria* sect. *Eualectoria* Th. Fr. 1880; = *Alectoriomyces* Cif. & Tomas. 1953; = *Bryopogon* Link 1833; = *Ceratocladia* Schwend. 1860; = *Eualectoria* (Th. Fr.) Gyeln. *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, nine species, type: *A. sarmentosa* (Ach.) Ach., with ascomata, but often absent, lichenized (green algae), terrestrial (corticolous, terricolous), widespread, see Halonen et al. (2009; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Divakar et al. (2015; phylogeny), Wang et al. (2015f; new species), Lücking et al. (2017a; classification), McMullin et al. (2016; phylogeny), sequences are available.

Aleuria Fuckel 1870 (= *Peziza* Fuckel 1870; = *Peziza* subgen. Aleuria (Fuckel) Quél. 1886 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 17 species, type: *A. aurantia* (Pers.) Fuckel, asexual morph unknown, on soil, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for the type species.

Aleurina Massee 1898 (= *Jafneadelphus* Rifai 1968 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, eleven species, type: *A. tasmanica* Massee, asexual morph unknown, on soil, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Alfaria Crous, Montano-Mata & Garcia-Jim. 2014, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, eight species, type: *A. cyperi-esculenti* Crous, N.J. Montaño-Mata & García-Jim., asexual morph coelomycetous, pathogenic, terrestrial, Spain, Italy, see Crous et al. (2014c; morphology of sexual morph), Lombard et al. (2016; phylogeny, new species), Wijayawardene et al. (2016b, 2017; morphology of asexual morph, phylogeny), ex-type strains of type: CPC 23153; holotype CBS H-21703.

Alfariacladiella Crous & R.K. Schumach. 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *A. spartii* Crous & R.K. Schumach., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Spain, see Hernández-Restrepo et al. (2016a; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and culture ex-type of the type: CBS H-22655, CPC 24966.

Algincola Velen. 1939, *Helotiales* genera *incertae sedis*, three species, type: *A. quercina* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Algonquinia R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *A. inflata* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Canada, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), holotype of the type: INIFAT C89/401, cultures and sequences are unavailable, compare with *Catenocuneiphora*, *Hormomyces* and *Sphaerosporium*.

Alina Racib. 1909, *Perisporiopsidaceae*, *Dothideomycetes*, families *incertae sedis*, one species, type: *A. jasmini* Racib., asexual morph hyphomycetous, parasitic on living leaves of *Jasminum* spp., Buitenzorg, Indonesia, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, re-collection and revision required.

Aliquandostipite Inderb. 2001, *Aliquandostipitaceae*, *Jahnulales*, *Dothideomycetes*, seven species, type: *A. khaoyaiensis* Inderb., asexual morph unknown, saprobes, freshwater, Australia, China, Costa Rica, Egypt, Panama, Thailand, Venezuela, USA, see Schoch et al. (2009; phylogeny), Shearer et al. (2009; phylogeny), Suetrong et al. (2010, 2011a; outline, phylogeny), Raja et al. (2011b; phylogeny), Liu et al. (2015a; morphology), holotype and ex-type of the type: UBC F13875, CBS 118232.

Alisea Dupont & E. B. G. Jones 2009, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *A. longicolla* Dupont & Jones, asexual morph unknown, saprobes, marine, ascomata on deep sea sunken wood, south Pacific Ocean and South China Sea, see Dupont et al. (2009; taxonomy), Jones et al. (2015; outline), Maharachchikumbura et al. (2016b; outline), holotype of type: PC 0115840.

Allantonectria Earle 1901 (see Species Fungorum 2017 for synonyms), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, type: *A. yuccae* Earle, four species, asexual morph hyphomycetous, terrestrial, saprobes, cosmopolitan, see Hirooka et al. (2012; monograph), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Allantoparmelia (Vain.) Essl. 1978 (= *Parmelia* subgen. *Allantoparmelia* Vain. 1909 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *A. alpicola* (Th. Fr.) Essl., all with ascomata (but often absent), lichenized (green algae), terrestrial (saxicolous, rarely terricolous), boreal or arctic alpine in Northern Hemisphere, see Crespo et al. (2010b; phylogeny), Lumbsch and Huhndorf (2010; outline), Spribille et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA, phylogeny), Divakar et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Allantophomopsiella Crous 2014, *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, one species, type: *A. pseudotsugae* (M. Wilson) Crous, saprobes, Europe, see Crous et al. (2014b; morphology, phylogeny), reference specimen and culture of type: CBS H-15946, culture CBS 562.63.

Allantophomopsis Petr. 1925 (= *Apostrasseria* Nag Raj 1983 *fide* Jaklitsch et al. 2016a), *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, eight species, type: *A. cytisporea* (Fr.) Petr., asexual morph unknown, saprobes, terrestrial, worldwide, see Crous et al. (2014b, 2015a; phylogeny), Wijayawardene et al. (2017; outline), ex-epitype of the type: CPC 24977.

Allantoporthe Petr. 1921 (= *Allantoporthe* Petr. 1921; = *Aporhytisma* Höhn. 1917; = *Chorostate* (Nitschke ex Sacc.) Traverso 1906; = *Clypeorhynchus* Kirschst. 1936; = *Dialytes* Nitschke 1867; = *Diaporthe* subgen. Chorostate Nitschke ex Sacc. 1882; = *Melanoporthe* Wehm. 1938; = *Septomazzantia* Theiss. & Syd. 1915 *fide* Species (Fungorum 2017), *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. leucothoës* Lar.N. Vassiljeva, asexual morph unknown, saprobes, terrestrial, North America, see Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Alloanthostomella Daranag., Camporesi & K.D. Hyde 2016, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. rubicola* (Speg. ex Sacc. & Trotter) Daranag., Camporesi & K.D. Hyde, asexual morph unknown, terrestrial, saprobes, see Daranagama et al. (2016a; taxonomy), Wendt et al. (2017; placed in *Xylariales*), cultures and sequences are available.

Alloarthopyrenia Phukhams., Lücking & K.D. Hyde 2016, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*,

one species, type: *A. italica* Phukhams., Camporesi, Ariyaw. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Hyde et al. (2016; taxonomy, phylogeny), holotype of the type: MFLU 15-0399.

Alloascoidea Kurtzman & Robnett 2013, *Alloascoideaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *A. africana* (L.R. Batra & Francke-Grosm.) C.P. Kurtzman & C.J. Robnett, asexual morph unknown (budding of cells and formation of true hyphae), saprophytes, from trees and associated insects, terrestrial, Europe, Africa, see Kurtzman and Robnett (2013a; taxonomy), cultures and sequences are available.

Allocalicium M. Prieto & Wedin 2016, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *A. adaequatum* (Nyl.) M. Prieto and Wedin., lichenized, see Prieto and Wedin (2016; taxonomy, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Allocetraria Kurok. & M.Y. Lai 1991 (= *Usnocetraria* M.J. Lai & J.C. Wei 2007 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, nine species, type: *A. stracheyi* (C. Bab.) Kurok. & M.J. Lai; lichenized; see Thell et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2011a; DNA, phylogeny), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Alloconiothyrium Verkley, Göker & Stielow 2014, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. aptrootii* Verkley & Stielow, coelomycetous, sexual morph unknown, from soil, Papua New Guinea, see Verkley et al. (2014; morphology, phylogeny); Wijayawardene et al. (2016b; morphology, phylogeny), holotype and ex-type culture of type species CBS H-21035, CBS 980.95.

Alloleptosphaeria Ariyaw., Wanas. & K.D. Hyde 2015, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. italica* Wanas., Camporesi, Ariyaw. & K.D. Hyde, asexual morph unknown, terrestrial, Europe, see Ariyawansa et al. (2015b; taxonomy, phylogeny), holotype of the type: MFLU 15-1517, cultures and sequences are available.

Allonecte (Pat.) Syd. 1939, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. lagerheimii* (Pat.) Syd. (= *Broomella lagerheimii* Pat. 1895), asexual morph coelomycetous, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Boonmee et al. (2011; transferred to *Pleosporaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Allonectella Petr. 1950, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *A. rubescens* Petr., sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b), cultures and sequences are available.

Alloneottiosporina Nag Raj 1993, *Ascomycota* genera *incertae sedis*, two species, type: *A. carolinensis* Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: BPI 1110181.

Allophaeosphaeria Ariyaw., Camporesi & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *A. muriformia* Ariyawansa, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, see Ariyawansa et al. (2015a; taxonomy, phylogeny), Liu et al. (2015a; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type cultures of the type: MFLU 15-0067, MFLUCC 13–0349.

Allophoma Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *A. tropica* (R. Schneid. & Boerema) Q. Chen & L. Cai, coelomycetous, saprobes, pathogens, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), isotype and ex-isotype of the type: CBS H-7629, CBS 436.75.

Allophoron Nádv. 1942, *Pezizomycotina* genera *incertae sedis*, one species, type: *A. farinosum* Nádv., asexual morph unknown, lichenized, terrestrial, Colombia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017b: classification), cultures and sequences are unavailable.

Allophylaria (P. Karst.) P. Karst. 1870 (= *Helotidium* Sacc. 1884; = *Peziza* sect. *Allophylaria* P. Karst. 1869 *fide* Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *X. sticticum* (Fr.) Wallr., asexual morph unknown, saprobes, terrestrial, China, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Allosoma Syd. 1926, *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *A. cestri* Syd., asexual morph hyphomycetous, epiphytic on leaves or saprobes on dead stems, North and South America, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014e), cultures and sequences are unavailable, holotype of type: GZU157-80.

Allothyrina Bat. & J.L. Bezerra 1964, *Ascomycota* genera *incertae sedis*, one species, type: *A. serjaniae* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al.

(2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Allothyriopsis Bat., Cif. & H. Maia 1959, *Ascomycota* genera *incertae sedis*, one species, type: *A. landolphiae* Bat., Cif. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, Ghana, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Alnecium Voglmayr & Jaklitsch 2014, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *A. auctum* (Berk. & Broome) Voglmayr & Jaklitsch, asexual morph unknown, saprobes, terrestrial, Europe, see Voglmayr and Jaklitsch (2014; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Alpakesa Subram. & K. Ramakr. 1954, *Ascomycota* genera *incertae sedis*, four species, type: *A. yuccifolia* (J.G. Hall) Subram. & K. Ramakr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, Thiwan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), available specimens of type: IMI 177975, cultures are unavailable.

Alpakesiopsis Abbas, B. Sutton, Ghaffar & A. Abbas 2003, *Ascomycota* genera *incertae sedis*, one species, type: *A. ghaffarii* Abbas, B. Sutton & Al. Abbas, coelomycetous, sexual morph unknown, saprobes, terrestrial, Pakistan, see Wijayawardene et al. (2012, 2017; outline), holotype of the type: IMI 202284, cultures are unavailable.

Alpestrisphaeria Thambug. & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. terricola* (G.S. Gong) Thambug. & K.D. Hyde, asexual morph unknown, associated with soil, China, see Thambugala et al. (2015b; phylogeny), Ariyawansa et al. (2016c; new species), ex-type culture of type: SC-12.

Alternaria Nees 1817 (= *Allewia* E.G. Simmons 1990 *fide* Woudenberg et al. 2013; Wijayawardene et al. 2014c; Rossman et al. 2015b; see Woudenberg et al. 2013 for all synonyms), *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, 663 species, type: *A. alternata* (Fr.) Keissl., sexual morph formerly known in *Lewia*, saprobes, plant and animal pathogens, terrestrial, worldwide, see Aly et al. (2008; cytotoxic metabolites), Andersen et al. (2008; metabolite profiling), Avenot et al. (2008; succinate dehydrogenase mutation), Azcarate et al. (2008; toxins), Bartra et al. (2008; respiratory allergy), Cota et al. (2008; Altenusin), Craven et al. (2008; Anastomosis), Flors et al. (2008; cell signalling), Grinn-Gofroń and Strzelczak (2008; meteorological factors), Harimoto et al. (2008; AMT2 gene), Kumar et al. (2008a, b; variability, India, host resistance), Lawrence et al. (2008; pathogenicity review), Miyamoto et al. (2008, 2009; ACT-toxin biosynthesis, phylogeny), Ostry (2008; *Alternaria* mycotoxins), Park et al. (2008; phylogeny), Parada et al. (2008; toxin from germinating spores), Pasche and Gudmestad (2008; F129L mutation), Pastor and Guarro (2008; infections), Perello et al. (2008; Argentina, black point of wheat), Rosenzweig et al. (2008; sensitivity to azoxystrobin), Sabirov et al. (2008; nasal polyposis), Saravanakumar et al. (2008; competition for host), Schmechel et al. (2008; environmental immunoassays), Tabar et al. (2008; immunotherapy), Vélëz et al. (2008; Mannitol biosynthesis), Wang et al. (2008c; biocontrol), Yuan et al. (2008; Tricycloalternarenes), Logrieco et al. (2009; pathogenicity review), Latha et al. (2009; host resistance induction), Lee et al. (2009b; protein disruption study), Pogány et al. (2009; biochemistry), Kjer et al. (2009; phenolic extrolites), Mishra et al. (2009; inhibition by Cinnamomum), Kobayashi et al. (2009; hypersensitivity), Hadizadeh et al. (2009; antifungal activity), Andrew et al. (2009; phylogeny), Lin et al. (2009; pathological mechanism), Tu (2009; keratitis), Avenot et al. (2009; protein mutation), Ali et al. (2009; malachite green degradation), Pedras et al. (2009; review), Siegel et al. (2009; HPLC, MS), Grinn-Gofroń and Rapiejko (2009; Poland), Aoki et al. (2009; mycovirus), Wight et al. (2009; biochemistry), Fawzi et al. (2009; antifungal effects), Wang et al. (2009c, d; cerebrosides, postharvest biocontrol), Gu (2009, Bioactive metabolites), Andersen et al. (2009; polyphasic taxonomy), Phuwapraisirisan et al. (2009; antitumour metabolites), Yang et al. (2009; AP1 pathway study), Cho et al. (2009; virulence factors), Fernandes et al. (2009; fermentation extract activity), Stępalska and Wołek (2009; Intradiurnal periodicity), Hedayati et al. (2009; IgE analysis), Nallathambi et al. (2009; *Trichoderma* effects), Gao et al. (2009; Perylene derivatives), Anand et al. (2009; host resistance), Pose et al. (2009; growth factors), Kim et al. (2009b; Alternaramide), Evidente et al. (2009; Alternethanoxins), Hipolito et al. (2009; brain abscess), Kasahara et al. (2010; Solanapyrone synthase), Mukherjee et al. (2010; infection proteomics), Wolf et al. (2010; CO_2 effects), Imazaki et al. (2010; peroxisomes), Lin and Chung (2010; signalling pathways), Ntui et al. (2010; wasabi defensin gene), Horsfield et al. (2010; fungicides), Randriamanantany et al. (2010; allergic rhinitis), Siegel et al. (2010; tenuazonic acid), Boyce et al. (2010; Phaeohyphomycosis), Kilic et al. (2010; effect on children), Lin et al. (2010, 2011; FUS3 MAPK pathway, pathogenicity), Dellavalle et al. (2011; antifungal activity), Kuna et al. (2011; immunotherapy), Boitano et al. (2011; molecular pathogenesis), Dey et al. (2011; lipid profiling), Song et al. (2011; Abscisic acid resistance), Huang et al. (2011; bianthraquinone derivatives), Escuredo et al. (2011; meteorological factors), Joubert et al. (2011a, b; stress

adaptation, pathogenicity), Sinha and Chattopadhyay (2011; host proteome profile), Yago et al. (2011; cell signalling), Noser et al. (2011; UPLC-MS/MS), Karaoglanidis et al. (2011; QoI fungicides resistance), Zheng et al. (2012; bioactive metabolites), Doherty et al. (2012; immunology), Fleck et al. (2012; toxins in mammals), Nowicki et al. (2012; crucifers host), Chruszcz et al. (2012; allergen), Pane et al. (2012; whey compost-tea control), Matsuwaki et al. (2012; immunological pathway), Recio et al. (2012; spore fluctuation), Skjøth et al. (2012; Copenhagen), Yang and Chung (2012; stress resistance), Hu et al. (2012d; Genomic characterization), Cho et al. (2012; Amr1), Fuiano et al. (2012; nasal IgE measurement), Asam et al. (2012; mycotoxin in food), Sarkar et al. (2012; Au nanoparticles), Twaroch et al. (2012; vaccine candidates), Chhikara et al. (2012; host resistance), Saha et al. (2012; biochemistry), Woudenberg et al. (2013, 2014; review), Tsuge et al. (2013; toxins), Lawrence et al. (2013; phylogeny), Lou et al. (2013; metabolites review), Jia et al. (2013; host pathogen interaction), Prelle et al. (2013; toxin detection in food), Müller and Korn (2013; mycotoxins in wheat), Chakraborty et al. (2013; congo red dye degradation), Mamgain et al. (2013; pathogenicity), Snelgrove et al. (2014; immunology), Wijayawardene et al. (2014c; nomenclature), Ouda (2014; nanoparticle effect), Ariyawansa et al. (2015a, c; new species, phylogeny), Rossman et al. (2015b; nomenclature), Templeton (2016, pathogenesis), Meena et al. (2016; mustard disease), Thambugala et al. (2017b, new species, phylogeny), Zhang et al. (2017a; LAMP), molecular data available for most of the species, including type species; GenBank Number NR_131316, epitype and ex-epitype of type: IMI 254138; CBS 916.96.

Alternariaster E.G. Simmons 2007, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. helianthi* (Hansf.) E.G. Simmons, hyphomycetous, sexual morph unknown, pathogens, Brazil, see Alves et al. (2013; new species, morphology, phylogeny), Hyde et al. (2013; accepted as a genus in *Pleosporaceae*), Wijayawardene et al. (2014c; outline), Woudenberg et al. (2014; phylogeny), cultures and sequences are available.

Alveariospora Meir. Silva, R.F. Castañeda, O.L. Pereira & R.W. Barreto 2012, *Ascomycota* genera *incertae sedis*, one species, type: *A. distoseptata* Meir. Silva, R.F. Castañeda, O.L. Pereira & R.W. Barreto, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Silva et al. (2012; taxonomy), Wijayawardene et al. (2017; outline), holotype of the type: VIC 31399, cultures and sequences are unavailable, compare with *Annellophragmia*, *Annellosympodia* and *Spiropes*.

Alveophoma Alcalde 1952, *Ascomycota* genera *incertae sedis*, one species, type: *A. caballeroi* Alcalde, coelomycetous, sexual morph unknown, saprobes, Spain, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need further revisions.

Alysidiella Crous 2006, *Dothideomycetes* genera *incertae sedis*, four species, type: *A. parasitica* Crous, hyphomycetous, sexual morph unknown, pathogens, Cyprus, South Africa, Uruguay, see Seifert et al. (2011; morphology), Cheewangkoon et al. (2012; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type culture of type: CBS H-19742, CPC 12835.

Alysidiopsis B. Sutton 1973, *Ascomycota* genera *incertae sedis*, five species, type: *A. pipsissewae* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need further revisions.

Alyxoria Ach. 1821, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, twelve species (many additional species in the tropics; revision needed), type: *A. varia* (Pers.) Ertz & Tehler, lichenized, see Ertz and Tehler (2011; taxonomy, phylogeny), Diederich et al. (2012a; taxonomy, checklist), Lücking et al. (2017a; classification), sequences are available.

Amallospora Penz. 1897, *Ascomycota* genera *incertae sedis*, one species, type: *A. dacrydion* Penz., hyphomycetous, sexual morph unknown, saprobes, Java, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need further revisions.

Amandinea M. Choisy ex Scheid. & M. Mayrhofer 1993 (= *Amandinea* M. Choisy, Bull. 1950 *fide* Species Fungorum 2017), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 35 species, type: *A. coniops* (Wahlenb.) M. Choisy ex Scheid. & H. Mayrhofer, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Kirk et al. (2013; outline, genus accepted), Kondratyuk et al. (2015d; notes), Prieto et al. (2013; phylogeny), Prieto and Wedin (2016; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Amarenographium O.E. Erikss. 1982 (= *Amarenomyces* O.E. Erikss. 1981 *fide* Rossman et al. 2016a), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *A. metableticum* (Trail) Erikss., asexual morph coelomycetous, sexual morph unknown, endophytic and saprobes, China, Saudi Arabia, Sweden, Italy, see Hodhod et al. (2012; morphology, phylogeny); Wijayawardene et al. (2016b; morphology, phylogeny),

Rossman et al. (2016a; nomenclature), cultures and sequences are available but lacking for the type.

Amaurascopsis Guarro, Gené & De Vroey 1992, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, asexual morph unknown, two species, type: *A. perforata* Guarro, Gené & De Vroey, saprobes, from chicken yard soil, Burundi, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Amauroascus J. Schröt. 1893, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, 14 species, type: *A. verrucosus* (Eidam) J. Schröt., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Sigler et al. (2013; DNA), cultures and sequences are available but lacking for the type.

Amazonia Theiss. 1913 (= *Actinodothis* Syd. & P. Syd. 1914; = *Amazoniella* Bat. & H. Maia 1960; = *Meliolaster* Doidge 1920 *fide* Species Fungorum 2017), *Meliolaceae*, *Meliolales*, *Sordariomycetes*, more than 70 species, type specie: *A. psychotriae* (Henn.) Theiss., asexual morph unknown, pathogens causing black mildew disease, terrestrial, tropical and subtropical distribution, see Hosagoudar and Archana (2009; host distribution in India), Lumbsch and Huhndorf (2010; outline), Hosagoudar et al. (2010c; new species, morphology), Hosagoudar and Robin (2011; new species, morphology), Hosagoudar (2013; new species, morphology), LSU sequence are available for *A. acacia*.

Amazonomyces Bat. 1964, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *A. palmae* Bat. & Cavalc., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Amazonotheca Bat. & H. Maia 1959, *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *A. santiriae* Bat. & H. Maia, asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Phookamsak et al. (2016; accepted as *Schizothyriaceae*), cultures and sequences are unavailable.

Amazonotrema Kalb & Lücking 2009, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *A. nigrum* Kalb & Lücking, asexual morph unknown, lichenized, terrestrial, tropical, see Kalb (2009; new records), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; classification), Lücking et al. (2017a; classification), sequences unavailable.

Ambarignomonia Sogonov 2008, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. petiolorum* (Schwein.) Sogonov, asexual morph unknown, saprobes, USA, see Sogonov et al. (2008; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Amblyosporium Fresen. 1863 (= *Gueguenia* Bainier 1907; = *Searchomyces* B.S. Mehrotra & M.D. Mehrotra 1963 fide Seifert et al. 2011; Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, four species, type: *A. botrytis* Fresen., hyphomycetous, sexual morph unknown, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Ambrodiscus S.E. Carp. 1988, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *A. pseudotsugae* S.E. Carp., asexual morph unknown, on bark beetle galleries, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ambrosiella Brader ex Arx & Hennebert 1965, *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, seven species, type: *A. xylebori* Brader, hyphomycetous, obligate, mutualistic symbionts of ambrosia beetles, from bark beetle galleries/ mycangia in Ivory Coast, USA, Africa, Asia, Europe, USA, Japan, Taiwan, terrestrial, polyphyletic, some species belong to *Ophiostomataceae*, see Six et al. (2009; new species), Alamouti et al. (2009; phylogeny), Harrington et al. (2010, 2014; taxonomic revisions and new combinations), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Mayers et al. (2015; phylogeny), Maharachchikumbura et al. (2016b; outline), isotype: CBS 110.61, sequences are available at GenBank from Alamouti et al. (2009).

Ambrosiozyma Van der Walt 1972 (= *Hormoascus* Arx 1972 *fide* Species Fungorum 2017), *Saccharomycopsidaceae*, *Saccharomycetales*, *Saccharomycetes*, six species, type: *A. monospora* (Saito) Van der Walt, yeast or yeast-like, fungal symbionts of ambrosia beetles, widespread, see Endoh et al. (2008; phylogeny), Kirk et al. (2013; genus accepted), Kurtzman and Robnett (2013a; phylogeny), ex-type strains of type: CBS 2554.

Ameghiniella Speg. 1887 (= *Ionomidotis* E.J. Durand ex Thaxt. 1923; = *Poloniodiscus* Svrček & Kubička 1967 *fide* Species Fungorum 2017), *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *A. australis* Speg., asexual morph unknown, bark beetle galleries, terrestrial, North and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Ameliella Fryday & Coppins 2008, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *A. andreaeicola* Fryday & Coppins, lichenized, Europe and North America, see Coppins (2008; taxonomy), Fryday and Tønsberg (2015; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Ameroconium U. Braun & Zhurb. 2013, *Ascomycota* genera *incertae sedis*, one species, type: *A. hansfordii* Syd., hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, cosmopolitan, see Zhurbenko and Braun (2013; taxonomy), Wijayawardene et al. (2017; outline), holotype: LE 260838, cultures and sequences are unavailable.

Amerodiscosiella Farr 1961, *Ascomycota* genera *incertae sedis*, one species, type: *A. renispora* M.L. Farr 1961, coelomycetous, sexual morph unavailable, saprobes, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amerodiscosiellina Bat. & Cavalc. 1966, *Ascomycota* genera *incertae sedis*, one species, type: *A. annonacearum* Bat. & Cavalc., coelomycetous, sexual morph unavailable, saprobes, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ameromassaria Hara 1918, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. japonica* Hara, asexual morph unknown, pathogens, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013 genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Amerosporiopsis Petr. 1941, *Ascomycota* genera *incertae sedis*, one species, type: *A. gaubae* Petr., coelomycetous, sexual morph unavailable, saprobes, Iran, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amerosympodula Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *A. malaysiana* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amicodisca Svrček 1987, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *A. brdensis* (Velen.) Svrček, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Han et al. (2012, 2014; new species, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Amniculicola Y. Zhang ter & K.D. Hyde 2008 (= *Anguillospora* Ingold 1942 *fide* Rossman et al. 2016a), *Amniculicolaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *A. lignicola* Y. Zhang ter & K.D. Hyde, asexual morph hyphomycetous, saprobes in freshwater habitats, Europe, see Zhang et al. (2008b, 2009c, 2012e; taxonomy, phylogeny), Wijayawardene et al. (2012, 2014c), Wanasinghe et al. (2015; phylogeny), Rossman et al. (2016a; nomenclature), sequence are available for all species, holotype of type: PC 0092661.

Amoenodochium Peláez & R.F. Castañeda 1996, *Ascomycota* genera *incertae sedis*, one species, type: *A. humicola* Peláez & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: MA-33881, cultures and sequences are unavailable, compare with *Acanthodochium*, *Asperisporium*, *Megalodochium* and *Polythrincium*.

Amoenomyces R.F. Castañeda, Saikawa & Hennebert 1996, *Ascomycota* genera *incertae sedis*, one species, type: *A. catenosporus* R.F. Castañeda, Saikawa & Hennebert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: INIFAT C94/192, cultures and sequences are unavailable, compare with *Alternaria*, *Embellisia* and *Parapithomyces*.

Amorosia Mantle & D. Hawksw. 2006, *Amorosiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. littoralis* Mantle & D. Hawksw., hyphomycetous, sexual morph unknown, recovered from intertidal sediments, The Bahamas, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Jones et al. (2015; outline of marine genera), Thambugala et al. (2015b; phylogeny), holotype of the type: K(M) 139387, cultures and sequences are available, AM292047 (ITS).

Amorphomyces Thaxt. 1893, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, ten species, type: *A. falagriae* Thaxt., asexual morph unknown, dioecious, biotrophic on *Coleoptera* (Staphylinidae), terrestrial, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amorphotheca Parbery 1969, *Amorphothecaceae*, *Leotiomycetes*, families *incertae sedis*, one species, type: *A. resinae* Parbery, asexual morph unknown, saprobes on resins, hydrocarbons, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wang et al. (2015b; applications), cultures available for the type: CBS 184.54.

Ampelomyces Ces. ex Schltdl. 1852 (= *Byssocystis* Riess 1853; = *Cicinobolus* Ehrenb. 1853 *fide* Species Fungorum 2017), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *A. quisqualis* Ces., coelomycetous, sexual morph unknown, fungicolous, terrestrial, worldwide, see de Gruyter et al. (2009; phylogeny), Park et al. (2010; genetic variability), Wijayawardene et al. (2012, 2014c, 2017; taxonomy, phylogeny, outline), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), Verkley et al. (2014; phylogeny), cultures of the type: CBS 131.31, CBS 129.79.

Amphibambusa D.Q. Dai & K.D. Hyde 2015, *Cainiaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *A. bambusicola* Dai & Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Liu et al. (2015a; phylogeny, taxonomy), Senanayake et al. (2015; phylogeny), holotype and ex-type culture of type: MFLUCC 11–0617, MFLU 14–0825.

Amphichaetella Höhn. 1916 (= *Amphichaete* Kleb. 1914 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *A. echinata* (Kleb.) Höhn., hyphomycetous, sexual morph unknown, Europe, Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Amphilogia Gryzenh., H.F. Glen & M.J. Wingf. 2005, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *A. gyrosa* (Berk. & Broome) Gryzenh., H.F. Glen & M.J. Wingf., asexual morph coelomycetous, pathogenic, terrestrial, temperate, Sri Lanka, New Zealand, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-epitype strain of the type: CBS H-20178, CMW 10470.

Amphimyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *A. cerylonis* Thaxt., asexual morph unknown, biotrophic on *Coleoptera* from the genus *Cerylon* (Cerylonidae), West Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amphiporthe Petr. 1971 (= *Amphicytostroma* Petr. 1921 *fide* Rossman et al. 2015a), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *A. tiliae* (Sacc.) Petr., asexual morph hyphomycetous, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b), Rossman et al. (2015a; nomenclature).

Amphirosellinia Y.M. Ju, J.D. Rogers, H.M. Hsieh & Lar.N. Vassiljeva 2004, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, five species, type: *A. nigrospora* Y.M. Ju, J.D. Rogers & H.M. Hsieh, asexual morph unknown, saprobes, terrestrial, north temperate, see Hsieh et al. (2010; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: HAST Ju & Hsieh 91092308, sequences are available for the type species.

Amphisphaerellula Gucevič 1952, *Sordariomycetes*, genera *incertae sedis*, two species, type: *A. fagi* Gucevič, sexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Amphisphaeria Ces. & De Not. 1863 (= *Macrothelia* M. Choisy 1949; = *Massariella* Speg. 1880; = *Massariopsis* Niessl 1876; = *Phorcys* Niessl 1876; = *Poikiloderma* Füisting 1868; = *Rhynchostomopsis* Petr. & Syd. 1923 *fide* Species Fungorum 2017), *Amphisphaeriaceae*, *Amphisphaeriales*, *Sordariomycetes*, 196 species, type: *A. umbrina* (Fr.) De Not., asexual morph coelomycetous, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Senanayake et al. (2015, morphology and phylogeny), Maharachchikumbura (2015b, 2016b; morphology, phylogeny), sequences are available.

Amphisphaerina (Cooke) Höhnel 1919, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. texensis* (Cooke) Höhnel, asexual morph unknown, saprobes, terrestrial, USA, See Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Amphobotrys Hennebert 1973, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *A. ricini* (N.F. Buchw.) Hennebert, hyphomycetous, sexual morph unknown, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, need generic revision.

Amphoropycnium Bat. 1963, *Ascomycota* genera *incertae sedis*, one species, type: *A. philippinense* Bat., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amphorothecium P.M. McCarthy, Kantvilas & Elix 2001, *Ostropales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *A. occultum* P.M. McCarthy, Kantvilas & Elix, lichenized, terrestrial, Australia, see Lumbsch and

Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences unavailable.

Amphorulopsis Petr. 1959, *Sordariomycetes* genera *incertae sedis*, one specie, type: *A. polygonacearum* Petr., asexual morph unknown, terrestrial, former Yugoslavia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Index Fungorum (2017) listed the type species as a synonym of *Ceriospora polygonacearum*.

Ampliotrema Kalb ex Kalb 2006 (= *Ampliotrema* Kalb 2004 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 20 species, type: *A. amplius* (Nyl.) Kalb, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Sipman et al. (2012; key Costa Rica), Rivas Plata et al. (2012b; phylogeny), Cáceres et al. (2012b), Rivas Plata and Lücking (2012; classification), Mercado-Díaz et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Amplistroma Huhndorf, A.N. Mill., Greif & Samuels 2009, *Amplistromataceae*, *Amplistromatales*, *Sordariomycetes*, nine species, type: *A. carolinianum* Huhndorf, A.N. Mill., Greif & Samuels, asexual morph hyphomycetous, acrodontium-like in culture, sexual morph ascomycetes, saprobes, French Guiana, Costa Rica, Spain, Singapore, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura (2015b, 2016b; morphology, phylogeny), holotype: BPI 878925, sequences are available.

Ampullicephala R.F. Castañeda, Minter & M. Stadler 2009, *Ascomycota* genera *incertae sedis*, one species, type: *A. setiformis* (R.F. Castañeda) R.F. Castañeda, Minter & M. Stadler, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Castañeda-Ruiz et al. (2009b; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: INIFAT C85/79, cultures and sequences are unavailable, compare with *Gonatobotryum* and *Gonatobotrys*.

Ampulliferina B. Sutton 1969, *Ascomycota* genera *incertae sedis*, three species, type: *A. persimplex* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: IMI 134269.

Amundsenia Søchting, Garrido-Benavent, Arup & Frödén 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *A. austrocontinentalis* Garrido-Benavent, Søchting, Pérez-Ortega & Seppelt, lichenized, see Søchting et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Amycosphaerella Quaedvl. & Crous 2014, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *A. africana* (Crous & M.J. Wingf.) Quaedvl. & Crous, asexual morph unknown, pathogens, terrestrial, Australia, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), holotype and ex-type of the type: PERTH 05849543, CBS 110500.

Amygdalaria Norman 1853, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, 14 species, type: *A. pelobotryon* (Wahlenb.) Norman, lichenized, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Amylascus Trappe 1971, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, five species, type: *A. herbertianus* (J.W. Cribb) Trappe, mycorrhizal, Australia, the Americas, see Lumbsch and Huhndorf (2010; outline), Healy et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are for several undescribed species.

Amylis Speg. 1922, *Sordariomycetes* genera *incertae sedis*, one specie, type: *A. memorabilis* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Amylocarpus Cur. 1859 (= *Plectolitus* Kohlm. 1960 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *A. encephaloides* Curr., asexual morph unknown, drift wood, temperate marine waters, saprobe, sequence are available, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rämä et al. (2014; DNA, records in Norway), Jones et al. (2015; outline), cultures and sequences are available.

Amylora Rambold 1994, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, one species, type: *A. cervinocuprea* (Arnold) Rambold, lichenized, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Anabahusakala Carmo, J.S. Monteiro, Gusmão & R.F. Castañeda 2014, *Ascomycota* genera *incertae sedis*, one species, type: *A. amapensis* L.T. Carmo, J.S. Monteiro, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, Brazil, Carmo et al. (2014; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Anacacumisporium Y.R. Ma & X.G. Zhang 2016, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *A. appendiculatum* Y.R. Ma & X.G. Zhang, hyphomycetous, sexual morph unknown, saprobic, terrestrial, China, see Ma et al. (2016c; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Anacoronospora J.S. Monteiro, Gusmão & R.F. Castañeda 2016, *Ascomycota* genera *incertae sedis*, one species, type species: *A. diversiseptata* J.S. Monteiro, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobic, Brazil, see Monteiro et al. (2016b; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Anacraspedodidymum C.R. Silva, R.F. Castañeda & Gusmão 2014, *Ascomycota* genera *incertae sedis*, two species, type: *A. aquaticum* C.R. Silva, R.F. Castañeda & Gusmão, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Silva et al. (2014a; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Anaexserticlava T.S. Santa Izabel, R.F. Castañeda & Gusmão 2015, *Ascomycota* genera *incertae sedis*, one species, type: *A. caatingae* T.S. Santa Izabel, R.F. Castañeda & Gusmão, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Santa Izabel et al. (2015; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Anamylopsora Timdal 1991, *Baeomycetaceae*, *Baeomycetales*, *Lecanoromycetes*, one species, type: *A. pulcherrima* (Vain.) Timdal (*Lecidea pulcherrima* Vain.), lichenized, saxicolous, terricolous, temperate northern hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Resl et al. (2015; phylogeny), holotype: TUR-V-22644 (holotype), sequences are available.

Anaphysmene Bubák 1906 (= *Wakefieldia* G. Arnaud, Bull 1954 [1953] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *A. heraclei* (Lib.) Bubák, coelomycetous, sexual morph unknown, Europe, Gautamala see Wijayawardene et al. (2012, 2017; outline), Kirk *et al*. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Anapleurothecium Hern.-Restr. et al. 2017, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, one species, type: *A. botulisporum* Hern.-Restr., J. Mena & Gene, hyphomycetous, sexual morph unknown, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Anaptychia Körb. 1848 (= *Anaptychiomyces* E.A. Thomas 1939; = *Hagenia* Eschw. 1824; = *Imbricaria* (Schreb.) Michx. 1803; = *Lichen* sect. *Imbricaria* Schreb. 1791; *Lichenoides* Hoffm. 1789 [1790]; = *Parmelia* sect. *Imbricaria* (Schreb.) Fr. 1825; = *Tornabenia* A. Massal. 1853 *fide* Species Fungorum 2017), *Physciaceae*, *Caliciales*, *Lecanoromycetes*, 15 species, type: *A. ciliaris* (L.) Körb. ex A. Massal., lichenized, see Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Miądlikowska et al. (2014a; phylogeny), Prieto and Wedin (2016; classification), Lücking et al. (2017a; classification), sequences are available.

Anarhyma M.H. Pei & Z.W. Yuan 1986, *Ascomycota* genera *incertae sedis*, one species, type: *A. rhododendri* M.H. Pei & Z.W. Yuan, coelomycetous, sexual morph unknown, saprobes, terrestrial, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Anariste Syd. 1927, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *A. poliothea* Syd., asexual morph unknown, epiphytes, terrestrial, Costa Rica, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, keys, transferred to *Micropeltidaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Micropeltidaceae*), placement in *Micropeltidaceae* supported by morphology, syntype of type: BPI 690985, cultures and sequences are unavailable.

Anaselenosporella Heredia, R.F. Castañeda & R.M. Arias 2010, *Ascomycota* genera *incertae sedis*, two species, type: *A. sylvatica* Heredia, R.F. Castañeda & R.M. Arias, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Mexico, see Castañeda-Ruiz et al. (2010a; morphology), Pratibha et al. (2011; new species), Wijayawardene et al. (2012, 2017; outline), holotype of the type: MUCL 45630, cultures and sequences are unavailable, compare with *Selenosporella* and *Selenosporopsis*.

Anaseptoidium R.F. Castañeda, Heredia & R.M. Arias 2012, *Ascomycota* genera *incertae sedis*, one species, type: *A. mycophilum* R.F. Castañeda, Heredia & R.M. Arias, hyphomycetous, sexual morph unknown, mycophilous, on synnemata of *Phaeoisaria clavulata*, terrestrial, Mexico, see Castañeda-Ruiz et al. (2010a; taxonomy), Wijayawardene et al. (2017; outline), holotype of type: XAL CB1696, cultures and sequences are unavailable, compare with *Septoidium*.

Ancistrosporella G. Thor. 1995 (= *Ancistrospora* G. Thor 1991 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *A. australiensis* (G. Thor) G. Thor, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ertz et al. (2015c; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Ancoraspora Mig. Rodr. 1982, *Ascomycota* genera *incertae sedis*, one species, type: *A. cubensis* Mig. Rodr., hyphomycetous, sexual morph unknown, saprobes, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Andamanomyces Hosag. 2014, *Asterinales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *A. fragariae* Hosag., S.P. Mathew & D. Babu, asexual morph unknown, epiphytes, biotrophic, terrestrial, India, see Hosagoudar et al. (2014; morphology, accepted as a genus in *Asterinales*), placement in *Asterinales* supported by morphology, holotype: TBGT 6666, cultures and sequences are unavailable.

Andreiomyces B.P. Hodk. & Lendemer 2013, *Andreiomycetaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *A. morozianus* (Lendemer) B.P. Hodk. & Lendemer, lichenized, see Hodkinson and Lendemer (2013; taxonomy), Lücking et al. (2017a; classification), cultures available for the type: NY1377.

Anema Nyl. ex Forssell 1885 (= *Omphalaria* A. Massal. 1855 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, ten species, type: *A. decipiens* (A. Massal.) Forssell, with ascomata, lichenized (cyanobacteria), terrestrial (saxicolous), arid, semiarid to warm temperate regions, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), see sequences are available.

Angatia Syd. & P. Syd. 1914, *Saccardiaceae*, *Ascomycota* families *incertae sedis*, five species, type: *A. eugeniae* Syd. & P. Syd., asexual morph unknown, saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Angelina Fr. 1849, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. rufescens* (Schwein.) Duby, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dermateaceae*), Kirk et al. (2013; genus accepted), Karakehian et al. (2014; DNA, phylogeny), Jaklitsch et al. (2016a; classification), culture available for the type: JK 12040101.

Angiactis Aptroot & Sparrius 2008, *Arthoniales* genus *incertae sedis*, *Arthoniomycetes*, three species, type: *A. littoralis* (Kantvilas) Aptroot & Sparrius, lichenized, terrestrial, tropical, see Aptroot et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Angiopomopsis Höhn. 1912, *Ascomycota* genera *incertae sedis*, one species, type: *A. lophostoma* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Java, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Anguillosporella U. Braun 1995, *Ascomycota* genera *incertae sedis*, two species, type: *A. vermiformis* (Davis) U. Braun., hyphomycetous, terrestrial, foliicolous, leaf-spotting, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), lectotype of type: BPI 442755, cultures and sequences are unavailable.

Angulimaya Subram. & Lodha 1964, *Ascomycota* genera *incertae sedis*, one species, type: *A. sundara* Subram. & Lodha, hyphomycetous, sexual morph unknown, on dung, terrestrial, Asia, see Seifert et al. (2011; morphology, accepted as a genus in *Lasiosphaeriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline, treated as *Ascomycota* genera *incertae sedis*), cultures and sequences are unavailable.

Angulospora Sv. Nilsson., 1962, *Ascomycota* genera *incertae sedis*, one species, type: *A. aquatica* Sv. Nilsson, hyphomycetous, sexual morph unknown, aquatic, on submerged decaying wood, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Angustimassarina Thambug., Kaz. Tanaka & K.D. Hyde 2015, *Amorosiaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *A. populi* Thambug. & K.D. Hyde, asexual morph hyphomycetous, fungicolous or saprobes, terrestrial, Germany and Italy, three species, see Thambugala et al. (2015b; morphology, phylogeny), Tibpromma et al. (2017b; new species), holotype and ex-type strain of type: MFLU 14–0588, MFLUCC 13–0034.

Angustospora Abdel-Aziz 2016, *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. nilensis* Abdel-Aziz, asexual morph unknown, saprobes, aquatic, Egypt, see Li et al. (2016a; taxonomy, phylogeny), holotype and ex-isotype of the type: MFLU 15-1511, MF804.

Anhellia Racib. 1900 (= *Agostaea* (Sacc.) Theiss. & Syd. 1915; = *Ramosiella* Syd. & P. Syd. 1917; = *Trabutia* subgen. Agostaea Sacc. 1895; = *Whetzeliomyces* Viégas 1945 *fide* Species Fungorum 2017), *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, nine species, type: *A. tristis* Racib., asexual morph unknown, parasitic on leaves, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Pinho et al. (2012; morphology, phylogeny), Kirk et al. (2013; genus accepted), Dissanayake et al. (2014; morphology), holotype of the type: F47931.

Aniptodera Shearer & M. A. Mill. 1977, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, c. 16 species, type: *A. chesapeakensis* Shearer & Mill., asexual morph unknown, saprobes, freshwater, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline),

genus polyphyletic, ex-type strains of type: CS-97-26 =ATCC 32818, holotype: ILLS 36523.

Anisogramma Theiss. & Syd. 1917 (= *Apioporthe* Höhn. 1917 *fide* Species Fungorum 2017), *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, three species, type: *A. virgultorum* (Fr.) Theiss. & Syd., asexual morph unknown, terrestrial, saprobes, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Anisomeridium (Müll. Arg.) M. Choisy 1928 (= *Arthopyrenia* sect. *Anisomeridium* Müll. Arg., Flora 1883; = *Compsosporiella* Sankaran & B. Sutton 1991; = *Ditremis* Clem. 1909; = *Lembidium* Körb. 1855; = *Microthelia* Körb. 1855; = *Sarcinulella* B. Sutton & Alcorn 1983 *fide* Species Fungorum 2017), *Monoblastiaceae*, *Monoblastiales*, *Dothideomycetes*, c. 200 species, type: *A. xylogena* Müll. Arg., asexual morph unknown, lichenized, terrestrial, mostly tropical, see Nelsen et al. (2009, 2011b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Anisomyces Theiss. & Syd. 1914 (= *Apiospora* subgen. *Phaeoapiospora* Sacc. & P. Syd. 1902; *Phaeoapiospora* (Sacc. & P. Syd.) Theiss. & Syd. 1915; = *Stegastroma* Syd. & P. Syd. 1916 *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, seven species, type: *A. papilloideoseptatus* (Henn.) Theiss. & Syd., asexual morph unknown, saprobes?, terrestrial, tropical America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Anisomycopsis I. Hino & Katum. 1964, *Diaporthales*, genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. rosae* I. Hino & Katum., asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Anisostagma K.R.L. Petersen & Jørg. Koch 1996, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *A. rotundatum* K.R.L. Petersen & Jørg. Koch, asexual morph unknown, saprobes, marine, Denmark, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: K. R. L. Petersen 9 slides numbered 1-9, Herbarium C, Copenhagen, cultures and sequences are unavailable.

Annellodentimyces Matsush. 1985, *Ascomycota* genera *incertae sedis*, one species, type: *A. antennatuloideus* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Annellodochium Deighton 1969, *Ascomycota* genera *incertae sedis*, one species, type: *A. ramulisporum* Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Annellolacinia B. Sutton 1964, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *A. dinemasporioides* B. Sutton, coelomycetous, sexual morph unknown, pathogens, Ghana, Sierra Leone, Trinidad, India, Australia, cultures and sequences are unavailable, see Wijayawardene et al. (2012, 2016b, 2017; taxonomy, outline), Kirk et al. (2013; genus accepted), holotype: IMI37897c.

Annellophora S. Hughes 1952 (= *Chaetotrichum* Syd. 1927 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 13 species, type: *A. solani* (Syd.) S. Hughes, hyphomycetous, sexual morph unknown, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Annellophorella Subram. 1962, *Ascomycota* genera *incertae sedis*, five species, type: *A. densa* (Syd. & P. Syd.) Subram., hyphomycetous, sexual morph unknown, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequence are unavailable.

Annellophragmia Subram. 1963, *Ascomycota* genera *incertae sedis*, one species, type: *A. coonoorensis* (Subram.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Annellospermosporella P.R. Johnst. 1999, *Ascomycota* genera *incertae sedis*, one species, type: *A. meliolinae* P.R. Johnst., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Annellosympodia McTaggart, R.G. Shivas & U. Braun 2007, *Ascomycota* genera *incertae sedis*, one species, type: *A. orbiculata* McTaggart, Shivas & Braun, hyphomycetous, sexual morph unknown, pathogens, terrestrial, Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: PERTH 03270173, isotype: BRIP 49805, paratype BRIP 19908, living cultures unavailable.

Annellosympodiella Crous & Assefa 2014, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *A. juniperi* Crous & Assefa, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Ethiopia, see Crous et al. (2014c; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype of the type: CBS H-21706, ex-type strain of type: CPC 23276.

Annulatascus Ces. & De Not. 1863, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, c. 19 species, type: *A. velatispora* K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Boonyuen et al. (2012; new species; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Luo et al. (2015b; taxonomy), Dayarathne et al. (2016a; epitypification of *A. velatisporus*), holotype of type: BRIP 17373; epitype MFLU 16-2204.

Annulohypoxylon Y.M. Ju, J.D. Rogers & H.M. Hsieh 2005, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *A. truncatum* (Schwein.) Y.M. Ju, J.D. Rogers & H.M. Hsieh, four species, asexual morph hyphomycetous, terrestrial, saprobes, Europe, North America, see Marincowitz et al. (2008; new species, South Africa), Hladki and Romero (2009; new species), Lumbsch and Huhndorf (2010; outline), Pereira et al. (2010; new species, Brazil), Liu et al. (2015a; new species), Li et al. (2016a; new species, Thailand), Maharachchikumbura et al. (2015b, 2016b; outline), Vasilyeva et al. (2016; new species), Kuhnert et al. (2017; new species, revision), Wendt et al. (2017; phylogeny), cultures and sequences are available.

Annulusmagnus J. Campb. & Shearer 2004, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *A. triseptatus* (Wong, Hyde & Jones) Campb. & Shearer, asexual morph unknown, saprobes, aquatic, Australia, Canada, USA, see Réblová et al. (2012; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), neotype of the type: HKU889, cultures available CBS 128831.

Anomalographis Kalb 1992, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *A. madeirensis* (Tav.) Kalb, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Anomomorpha Nyl. ex Hue 1891 (= *Anomomorpha* Nyl. ex Hue, Nouv 1891; = *Anomomorpha* Nyl. 1889; = *Aulacographa* Leight. 1854; = *Ctesium* Pers. 1827 [1826-1830]; = *Digraphis* Clem. 1909; = *Diplographis* Kremp. ex A. Massal. 1860 [1859-1860]; = *Dyplolabia* A. Massal. 1854; = *Graphidomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Opegrapha* Humb. 1793; = *Oxystoma* Eschw. 1824; = *Scaphis* Eschw. 1824; = *Thelographis* Nyl. 1857 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, eight species, type: *A. turbulenta* (Nyl) Hue, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; phylogeny), Lücking et al. (2017a; classification), sequences are unavailable.

Anopeltis Bat. & Peres 1960, *Dothideomycetes* genera *incertae sedis*, one species, type: *A. venezuelensis* Bat. & Peres, asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Capnodiaceae*), Hyde et al. (2013) did not accept as a genus in *Capnodiaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Anopodium N. Lundq. 1964, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *A. ampullaceum* N. Lundq., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kruys et al. (2015; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Antarctomyces Stchigel & Guarro 2001, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, one species, type: *A. psychrotrophicus* Stchigel & Guarro, asexual morph sporothrix-like, saprobes, terrestrial, Antarctica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bansal et al. (2014; antifreeze proteins), cultures and sequences are available.

Anteaglonium Mugambi & Huhndorf 2009, *Anteagloniaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *A. abbreviatum* (Schwein.) Mugambi & Huhndorf, asexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Mugambi and Huhndorf (2009a, 2010, taxonomy), Almeida et al. (2014b, new species), Hyde et al. (2013, included in to new family, *Anteagloniaceae*), Wijayawardene et al. (2014c; outline), Jayasiri et al. (2016c; new species, asexual morph of this genus and reference specimens), cultures available for the type: ANM 925aT.

Antealophiotrema A. Hashim. & Kaz. Tanaka 2017, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *A. brunneosporum* (Ying Zhang, J. Fourn. & K.D. Hyde) A. Hashim. & Kaz. Tanaka, asexual morph hyphomycetous, saprobes, Europe, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Antennatula Fr. ex F. Strauss 1850 (= *Hormisciella* Bat. 1956 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, ten species, type: *A. pinophila* Fr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011;

morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Antennopsis R. Heim 1952, *Ascomycota* genera *incertae sedis*, three species, type: *A. gallica* R. Heim & Buchli ex R. Heim, hyphomycetous, sexual morph unknown, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Antennospora Meyers 1957, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *A. caribbea* Meyers, asexual morph unknown, saprobes, marine, worldwide, see Pang et al. (2008b; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Antennulariella Woron. 1915 (= *Antennariella* Bat. & Cif.;= *Capnodendron* S. Hughes 1963; = *Capnociferria* Bat. 1963; = *Capnocrinum* Bat. & Cif. 1963; = *Capnodina* (Sacc.) Sacc. 1926; = *Capnodium* subgen. *Capnodina* Sacc. 1913 *fide* Wijayawardene et al. 2014c; Species Fungorum 2017), *Antennulariellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *A. fuliginosa* Woron., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Antennulariellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, treated *Antennariella* Bat. & Cif. and *Capnodendron* S. Hughes as synonyms), Rossman et al. (2015b) did not agree with Wijayawardene et al. (2014c), Hongsanan et al. (2016c; evolution), cultures and sequences are unavailable.

Anthocanalis Daranag., Camporesi & K.D. Hyde 2015, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *A. sparti* Daranag., Camporesi & K.D. Hyde, asexual morph nodulisporium-like, saprobes, terrestrial, Europe, see Daranagama et al. (2015a), Maharachchikumbura et al. (2015b, 2016b), Wendt et al. (2017; phylogeny), holotype and ex-type strains of type: MFLU 14–0225, MFLUCC 14–0010.

Anthonectria Döbbeler 2010, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, eight species, type: *A. mammispora* Döbbeler, asexual morph unknown, saprobes, epiphytes, terrestrial, cosmopolitan, see Döbbeler (2010; taxonomy), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Anthopsis Fil. March., A. Fontana & Luppi Mosca 1977, *Ascomycota* genera *incertae sedis*, three species, type: *A. deltoidea* Fil. March., A. Fontana & Luppi Mosca, asexual morph hyphomycetous, Europe, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequence are unavailable.

Anthostoma Nitschke 1867, *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *N. stictarum* Nannf. & R. Sant., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Cryptosphaeria* Ces. & De Not.), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), cultures and sequences are available.

Anthostomaria (Sacc.) Theiss. & Syd. 1918 (= *Anthostomella* subgen. *Anthostomaria* Sacc. 1905 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, one species, type: *A. apogyra* (Nyl.) Theiss. & Syd., asexual morph unknown, lichenicolous, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline).

Anthostomella Sacc. 1875 (= *Cryptosordaria* De Not. ex Sacc. 1891; = *Entosordaria* Speg. 1910, nom. Inval.; = *Maurinia* Niessl 1876; = *Myconeesia* Kirschst. 1936; ≡ *Neesiella* Kirschst. 1935; = *Paranthostomella* Speg. 1910; = *Phaeophomatospora* Speg. 1909 *fide* Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, more than 100 species, type: *A. tomicoides* Sacc., asexual morph hyphomycetous, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Daranagama et al. (2015a, 2016a; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Dai et al. (2017; new species), cultures and sequences are available.

Anthostomellina L.A. Kantsch. 1928, *Sordariomycetes* genera *incertae sedis*, two species, type: *A. carpinea* L.A. Kantsch., asexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline).

Anthostomelloides Tibpromma & K.D. Hyde 2016, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, five species, type: *A. krabiensis* Tibpromma & K.D. Hyde, asexual morph unknown, terrestrial, saprobes, Asia, see Tibpromma et al. (2017a; taxonomy), Wendt et al. (2017; placed in *Hypoxylaceae*), cultures and sequences are available.

Anthracobia Boud. 1885, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 20 species, type: *A. melaloma* (Alb. & Schwein.) Boud., scytalidium-like asexual morph has been reported, saprobes, terrestrial, on burnt soil, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hansen et al. (2013; phylogeny), cultures and sequences are available.

Anthracocarpon Breuss 1996, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, three species, type: *A. virescens* (Zahlbr.) Breuss, lichenized, see Lumbsch and Huhndorf (2010; outline), Prieto et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Anthracoderma Speg. 1888, *Ascomycota* genera *incertae sedis*, three species, type: *A. hookeri* Speg., coelomycetous, sexual morph unknown, South America see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Anthracothecium Hampe ex A. Massal. 1860 (= *Phaeodictyon* M. Choisy 1929 *fide* Species Fungorum 2017), *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, five species, type: *A. doleschallii* A. Massal., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Aptroot (2012; key), Weerakoon et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Gueidan et al. (2016; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type species.

Antimanoa Syd. 1930, *Ascomycota* genera *incertae sedis*, one species, type: *A. grisleae* Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Antoniomyces Inácio 2012, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, one species, type: *A. loranthicola* Inácio, Araúz & M. Piepenbr., asexual morph unknown, epiphytes, terrestrial, Panama, see Inácio et al. (2012; morphology, accepted as a genus in *Parmulariaceae*), Hyde et al. (2013; review, keys), Wijayawardene et al. (2014c; outline), placement in *Parmulariaceae* supported by morphology, holotype of type: PMA, cultures and sequences are unavailable.

Antromyces Fresen. 1850, *Ascomycota* genera *incertae sedis*, four species, type: *A. copridis* Fresen., hyphomycetous, sexual morph unknown, Europe, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Anulohypha Cif. 1962, *Ascomycota* genera *incertae sedis*, one species, type: *A. serpens* Cif., hyphomycetous, sexual morph unknown, Dominican Republic, see Seifert et al. (2011; did not accept), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Anungitea B. Sutton 1973, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, 17 species, type: *A. fragilis* B. Sutton, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014c, 2016a; new species), Xia et al. (2015b; new species), cultures and sequences are available but lacking for the type species.

Anungitopsis R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, nine species, type: *A. speciosa* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type species: INIFAT C88/275, sequences are available, compare with *Anungitea* and *Iyengarina*.

Anaverticicladus P.O. Costa, Malosso & R.F. Castañeda 2016, *Ascomycota* genera *incertae sedis*, one species, type: *A. uncinatus* P.O. Costa, Malosso & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobic, terrestrial Brazil, see Costa et al. (2016; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Anzia Stizenb. 1861 (= *Chondrospora* A. Massal. 1860 [1859-1860] *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, c. 25 species, type: *A. colpodes* (Ach.) Stizenb., with ascomata, lichenized (green algae), terrestrial, tropical to subtropical, see Crespo et al. (2010b; phylogeny), Lumbsch and Huhndorf (2010; outline), Jayalal et al. (2012b; new species), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Divakar et al. (2015; phylogeny), Wang et al. (2015d; new species), Lücking et al. (2017a; classification), sequences are available.

Anzina Scheid. 1982, *Ostropales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *A. carneonivea* (Anzi) Scheid., lichenized, terrestrial, Eurasia, see Lumbsch and Huhndorf (2010; outline), Wang et al. (2012; China), Kirk et al. (2013; genus accepted), Resl et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Aoria Cif. 1962, *Ascomycota* genera *incertae sedis*, one species, type: *A. amphistroma* Cif., coelomycetous, sexual morph unknown, Dominican Republic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Aparaphysaria Speg. 1922, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *A. doelloi* Speg., asexual morph unknown, terrestrial, South America, Tierra del Fuego, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Apatelomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *A. ogmoceri* Thaxt., asexual morph unknown, biotrophic only host known is *Ogmocerus* sp. (Coleoptera, Pselaphidae), Afrotropical, Liberia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Apatomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *A. laboulbenioides* Thaxt., asexual morph unknown, dioecious, biotrophic only host known is *Tachys ceylonicus* Nietn. (Coleoptera, Carabidae), Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Apatoplaca Poelt & Hafellner 1980 (see Species Fungorum 2017 for synonyms), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *A. oblongula* (H. Magn.) Poelt & Hafellner, lichenized, see Vondrák et al. (2012; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Apenidiella Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *A. strumelloidea* (Milko & Dunaev) Quaedvl. & Crous, hyphomycetous, sexual morph unknown, pathogens, terrestrial, Russia, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype of the type: BKMF-2534, ex-type strain of type: CBS 114484.

Aphanandromyces W. Rossi 1982, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *A. audisioi* W. Rossi, asexual morph unknown, biotrophic only host known is *Brachypterus urticae* (Coleoptera, Kateretidae), Europe, temperate to cool, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Aphanoascus Zukal 1890, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, c. 10 species, type: *A. cinnabarinus* Zukal, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), sequences and culture available.

Aphanocladium W. Gams 1971, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *A. album* (Preuss) W. Gams, asexual morphs unknown, on mycetozoans, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Aphanofalx B. Sutton 1986, *Ascomycota* genera *incertae sedis*, two species, type: *A. mali* B. Sutton, coelomycetous, sexual morph unknown, saprobes, Pakistan, Zambia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: IMI293036.

Aphanophora Réblová & Unter. 2013, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, three species, type: *A. eugeniae* (Crous & Alfenas) Réblová & Unter., hyphomycetous, sexual morph unknown, from living leaves of *Eugenia uniflora*, terrestrial, Rio Grande do Sul, see Réblová et al. (2013; taxonomy), ex-type cultures of the type: CBS 124105.

Aphanopsis Nyl. ex Sydow 1882 (= *Aphanopsis* Nyl. ex P. Syd. 1887 *fide* Species Fungorum 2017), *Aphanopsidaceae*, *Ascomycota* families *incertae sedis*, two species, type: *A. terrigena* (Ach.) Nyl. ex P. Syd., lichenized, terrestrial (terricolous), Europe, see Lumbsch and Huhndorf (2010; outline), Printzen et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Aphanostigme Syd. 1926 (= *Gomezina* Chardón & Toro 1934; = *Somatexis* Toro, in Chardon & Toro 1934 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, 21 species, type: *A. solani* Syd., asexual morph unknown, ascomata occurring as a saprophyte or a leaf hair parasite, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Aphanotria Döbbeler 2007, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *A. paradoxa* Döbbeler, asexual morph unknown, saprobes, Colombia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Apharia Bonord. 1864, *Sordariomycetes* genera *incertae sedis*, one specie, type: *H. nigrescens* Bonord., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Aphidomyces Brain 1923, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, three species, type: no typification data, asexual morph unknown, in insects, terrestrial, worldwide, see Lumbsch and Huhndorf (2010) did not include, Kirk et al. (2013; genus accepted).

Apiculospora Wijayaw., Camporesi, A.J.L. Phillips & K.D. Hyde 2016, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. spartii* Wijayaw., W.J. Li, Camporesi, A.J.L. Phillips & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2016b, 2017;

taxonomy, phylogeny, outline), holotype and ex-type of the type: MFLU 15–3556, MFLUCC 13–0400.

Apinisia La Touche 1968, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *A. graminicola* La Touche, asexual morph unknown, saprobes, terrestrial, Europe, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), culture available for the type: CBS 721.68.

Apiocamarops Samuels & J.D. Rogers 1987, *Boliniaceae*, *Boliniales*, *Sordariomycetes*, three species, type: *A. alba* Samuels & J.D. Rogers, asexual morphs unknown, saprobes, terrestrial, Central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Apiocarpella Syd. & P. Syd. 1919 (= *Apiosporella* Speg. 1910 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, eight species, type: *A. macrospora* (Speg.) Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but unpublished.

Apioclypea K.D. Hyde 1994, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, six species, type: *A. livistonae* K.D. Hyde, asexual morphs unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, treated as *Clypeosphaeriaceae*), Hongsanan et al. (2017a; phylogeny, evolution, treated *Clypeosphaeriaceae* as a synonym of *Xylariaceae*), cultures and sequences are available for unidentified species.

Apiodiscus Petr. 1940, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. gillii* Petr., asexual morph unknown, saprobes, terrestrial, Iran, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Apiognomonia Höhn. 1917, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, c. 15 species, type: *A. veneta* (Sacc. & Speg.) Höhn., asexual morph unknown, saprobes, terrestrial, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Vasilyeva and Stephenson (2010; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Crous et al. (2016a; new species), cultures and sequences are available.

Apioplagiostoma M.E. Barr 1978, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *A. populi* (E.K. Cash & Waterman) M.E. Barr, asexual morph discula-like, weak pathogens, terrestrial, temperate, Europe, North America, see Lumbsch and Huhndorf (2010; outline, accepted genus in *Valsaceae*), Sogonov et al. (2008; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Apioporthella Petr. 1929 (= *Apiothecium* Lar.N. Vassiljeva 1987 *fide* Species Fungorum 2017), *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. bavarica* Petr., asexual morph unknown, saprobe, terrestrial, temperate, Europe, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Apiorhynchostoma Petr. 1923, *Boliniaceae*, *Boliniales*, *Sordariomycetes*, five species, type: *A. apiculatum* (Sacc.) Petr., asexual morphs unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Apiosordaria Arx & W. Gams. 1967 (= *Cainea* S. Hughes 1951; = *Echinopodospora* B.M. Robison 1970; = *Echinospora* Mirza 1963; = *Lacunospora* Cailleux 1969 [1968] *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, 23 species; type: *A. verruculosa* Arx & W. Gams, asexual morph unknown, saprobes, endophytes, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; genus accepted), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are and culture are available for type: CBS 244.71.

Apiosphaeria (Spegazzini) Höhnel 1909 (= *Anisochora* Theiss. & Syd. 1915; = *Oswaldia* Rangel 1921 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, four species, type: *A. guaranitica* (Speg.) Höhn, asexual morph unknown, terrestrial, South America, Lumbsch and Huhndorf (2010; genus accepted), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), culture is available for type: CCMF 766.

Apiosporina Höhn. 1910 (= *Dibotryon* Theiss. & Syd. 1915 *fide* Zhang et al. 2011d), *Venturiaceae*, *Venturiales*, *Dothideomycetes*, c. two species, type: *A. collinsii* (Schwein.) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Raja et al. (2011a; DNA), Zhang et al. (2011d; morphology, phylogeny), Hyde et al. (2013; accepted as in *Venturiaceae*, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Apiosporopsis (Traverso) Mariani 1911 (= *Guignardia* subgen. Apiosporopsis Traverso 1907; = *Sphaerognomonia* Potebnia ex Höhn. 1917 *fide* Species Fungorum 2017), *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, three

species, type: *A. saccardoana* Mariani (as '*saccardiana*'), asexual morph unknown, saprobes, endophytes, terrestrial, Dominican Republic, Europe, India, Japan, see Lumbsch and Huhndorf (2010; outline), Osono and Masuya (2012; diversity on Betulaceae), Kirk et al. (2013; genus accepted), Keča et al. (2015; diversity on Poplars), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available for *Apiosporopsis carpinea*.

Apiothyrium Petr. 1947, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *A. arcticum* Petr., asexual morph unknown, saprobes, terrestrial, Finland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Apiotypa Petr. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *A. philippinensis* Petr., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, needs generic revision as Kirk et al. (2008) mentioned that type material is missing.

Aplanocalenia Lücking, Sérus. & Vězda 2005, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *A. inconspicua* (Müll. Arg.) Lücking, Sérus. & Vězda, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Aplosporella Speg. 1880 (= *Aplosporella* subgen. *Aplosporella* Speg. 1880; = *Aplosporella* subgen. *Euaplosporella* Petr. & Syd. 1926; = *Aplosporella* subgen. *Pleosphaeropsis* (Died.) Petr. & Syd. 1880; = *Epicyta* Syd. 1926; = *Microhaplosporella* Sousa da Câmara 1949; = *Pleosphaeropsis* Died. 1916; = *Podosporium* Bonord. 1851; = *Podosporium* Sacc. & Schulzer 1884 *fide* Species Fungorum 2017), *Aplosporellaceae*, *Botryosphaeriales*, *Dothideomycetes*, c. 70 species, type: *A. chlorostroma* Speg., asexual morph unknown coelomycetous, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c, 2016b, 2017; outline, taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Kirk et al. (2013; genus accepted), Slippers et al. (2013; phylogeny), Trakunyingcharoen et al. (2015; new species, phylogeny), Crous et al. (2016a; new species, phylogeny), Ekanayaka et al. (2016b; new species), cultures and sequences are available.

Apodospora Cain & J.H. Mirza 1970, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *A. simulans* Cain & J.H. Mirza, asexual morph unknown, coprophilous, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), culture and sequences are available.

Apodothina Petr. 1970, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. pringlei* (Peck) Petr., asexual morph unknown, saprobes, from living leaves, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Apodus Malloch & Cain 1971, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *A. deciduus* Malloch & Cain, asexual morph unknown, coprophilous, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 506.70.

Apogaeumannomyces Matsush. 2003, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. perplexus* Matsush., asexual morph unknown, saprobes, from living leaves, terrestrial, Peru, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: MFC 1P446, cultures and sequences are unavailable.

Apogloeum Petr. 1954, *Ascomycota* genera *incertae sedis*, one species, type: *A. concinnum* Petr., coelomycetous, sexual morph unknown, rarely reported and in case on leaves of *Lomatia polymorpha* in Tasmania, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype: BPI 1110296.

Apoharknessia Crous & S.J. Lee 2004, *Apoharknessiaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. insueta* (B. Sutton) Crous & S.J. Lee, sexual morph unknown, pathogens, Mauritius, Brazil, Colombia, see Crous et al. (2012f; phylogeny), Wijayawardene et al. (2012, 2016b, 2017; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline) epitype and ex-epitype culture of type: herb. CBS 9913, CBS 111377.

Apomelasmia Grove 1937 (= *Cheilariopsis* Petr. 1959 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, eight species, type: *A. urticae* (Fr.) Grove, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2012), Maharachchikumbura et al. (2015b, 2016b) treated as a genus in *Diaporthales*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Aporellula B. Sutton 1986 [1985] (= *Aporella* Syd. 1939 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *A. erigerontis* (Syd.) B. Sutton, coelomycetous, sexual morph unknown, saprobes, Ecuador, see Wijayawardene et al. (2012, 2017; outline),

Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, isotype: IMI 288252.

Aporomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eleven species, type: *A. uniflagellatus* Thaxt., asexual morph unknown, parasitic on Limnichidae, Histeridae, and Staphylinidae beetles, terrestrial, Asia, Europe, North and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossi and Santamaria (2015; Ecuador), cultures and sequences are unavailable.

Aposphaeria Sacc. 1880, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, 189 species, type: *A. pulviscula* (Sacc.) Sacc., coelomycetous, sexual morph ?*Melanomma* Nitschke ex Fuckel, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Tian et al. (2015; morphology, phylogeny), Li et al. (2016a; new species), Tibpromma et al. (2017b; sexual report), cultures and sequences are available.

Aposporella Thaxt. 1920, *Ascomycota* genera *incertae sedis*, three species, type: *A. elegans* Thaxt., hyphomycetous, sexual morph unknown, on insects, terrestrial, Africa, see Seifert et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Apostrasseria Nag Raj 1983, *Ascomycota* genera *incertae sedis*, two species, type: *A. lunata* (Shear) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, New Zealand, North America, see Wijayawardene et al. (2012) treated as a genus in *Phacidiaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Appendichordella R.G. Johnson, E.B.G. Jones & S.T. Moss 1987, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *A. amicta* (Kohlm.) R.G. Johnson, E.B.G. Jones & S.T. Moss, asexual morph unknown, saprobes, marine, Denmark, France, Germany, Yugoslavia, USA, see Jones et al. (2009b, 2015; outline, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Appendicospora K.D. Hyde 1995, *Apiosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *A. coryphae* (Rehm) K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), sequences are available.

Appendiculella Höhn. 1919 (= *Irenina* F. Stevens 1927; = *Meliola* subgen. Irenina (F. Stevens) Cif. 1938 *fide* Species Fungorum 2017), *Meliolaceae*, *Meliolales*, *Sordariomycetes*, c. 110 species, type: *A. calostroma* (Desm.) Höhn., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type species.

Appendispora K.D. Hyde 1994, *Roussoellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. frondicola* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Brunei, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Didymosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Didymosphaeriaceae*), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014a; transferred to *Roussoellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Appendixia B.S. Lu & K.D. Hyde 2000, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, five species, type: *A. closterium* (Berk. & M.A. Curtis) B.S. Lu & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; placed in *Xylariales*), cultures and sequences are unavailable.

Apseudocercosporella Videira & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *A. trigonotidis* Videira, H.D. Shin & Crous, hyphomycetous, sexual morph unknown, plant pathogenic, see Videira et al. (2016; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: KUS-F20054, CBS 131890 =CPC 10864.

Aptrootia Lücking & Sipman 2007, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, three species, type: *A. terricola* Lücking, Umaña & Sipman, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Trypetheliaceae*), Aptroot and Lücking (2016; monograph), Lücking et al. (2016a, 2017a; classification), sequences are available.

Aquadiscula Shearer & J.L. Crane 1985, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *A. appendiculata* Shearer & J.L. Crane, asexual morph unknown, saprobes on submerged leaf, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Aquadulciospora Fallah & Shearer 2001, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. rhomboidia* Fallah & Shearer, asexual morph unknown, saprobes, aquatic, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b;

outline), holotype: ILLS 53999, cultures and sequences are unavailable.

Aqualignicola Ranghoo, K.M. Tsui & K.D. Hyde 2001, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, two species, type: *A. hyalina* Ranghoo, K.M. Tsui & K.D. Hyde, asexual morph unknown, saprobes, fresh water, terrestrial, China, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Hu et al. (2012a; new species, China), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: HKU (M) 12178, cultures and sequences are unavailable.

Aquamarina Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1996, *Sordariomycetes* genera *incertae sedis*, one species, *type*: *A. speciosa* Kohlm., Volkm.-Kohlm. & O.E. Erikss., asexual morph unknown, saprobes, marine, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Aquanectria L. Lombard & Crous 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *A. penicillioides* (Ingold) L. Lombard & Crous, asexual morph hyphomycetous, saprobes, aquatic, Jamaica, USA, see Lombard et al. (2015b; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), ex-epitype of type: CBS 257.54.

Aquapeziza D.M. Hu, L. Cai & K.D. Hyde 2012, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *A. globispora* D.M. Hu, L. Cai & K.D. Hyde, asexual morph unknown, saprobes, aquatic, China, see Hu et al. (2012c; taxonomy, phylogeny), holotype and cultures available for the type: IFRD 8978, DMH-2010.

Aquaphila Goh, K.D. Hyde & W.H. Ho 1998, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, two species, type: *A. albicans* Goh, K.D. Hyde & W.H. Ho, sexual morph tubeufia-like, saprobes, submerged wood in aquatic habitats, see Boonmee et al. (2011, 2014b; accepted as *Tubeufiaceae*), Seifert et al. (2011; morphology), Wijayawardene et al. (2014c; outline), Hyde et al. (2016; new species, sexual morph), cultures and sequences are available for authentic strains BCC 3520, BCC 3543 and reference strains MFLUCC16-0010, MFLUCC16-0020.

Aquapoterium Raja & Shearer 2008, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. pinicola* Raja & Shearer, saprobes, aquatic, see Koukol and Kolárová (2010; demonstrated that *Bactrodesmium gabretae* Koukol & Kolářová, which was isolated from spruce needles is closely related to *A pinicola* Raja & Shearer, in the *Helotiales*), Lumbsch and Huhndorf (2010; outline), ex-type strain F47-1 =MYA 4213 (American Type culture Collection), holotype: F47-1, ILL 40117

Aquapteridospora J. Yang, K.D. Hyde & Maharachch. 2015, *Diaporthomycetidae* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. lignicola* Yang Jing, K.D. Hyde & Maharachch., hyphomycetous, sexual morph unknown, saprobes, aquatic, Thailand, see Yang et al. (2015a; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: MFLU 15-1172.

Aquasphaeria K.D. Hyde 1995, *Sordariomycetes*, genera *incertae sedis*, one species, type: *A. dimorphospora* K.D. Hyde, asexual morph unknown, saprobes, aquatic, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: BRIP 21482, cultures and sequences are unavailable.

Aquastroma Kaz. Tanaka & K. Hiray. 2015, *Parabambusicolaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. magniostiolata* Kaz. Tanaka & K. Hiray., asexual morph unknown, saprobes, aquatic, Japan, see Tanaka et al. (2015; taxonomy, phylogeny), holotype and ex-type of the type: HHUF 30122, CBS 139680.

Aquasubmersa K.D. Hyde & Huang Zhang 2012, *Aquasubmersaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. mircensis* Huang Zhang & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Wijayawardene et al. (2012, 2017; outline), Zhang et al. (2012a; taxonomy, phylogeny), Ariyawansa et al. (2015a; new species), Hashimoto et al. (2017; phylogeny), cultures and sequences are available.

Aquaticola W.H. Ho, K.M. Tsui, Hodgkiss & K. D. Hyde 1999, *Annulatascaceae*, *Incertae sedis*, *Sordariomycetes*, six species, type: *A. triseptata* K.M. Tsui, Hodgkiss & K.D. Hyde, asexual morph unknown, saprobes, aquatic, Hong Kong, Australia, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: HKU(M) 2969.

Aquilomyces D.G. Knapp, Kovács, J.Z. Groenew. & Crous 2015, *Morosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. patris* D.G. Knapp, Kovács, Groenewald & Crous, endophytes, see Knapp et al. (2015; phylogeny), cultures and sequences are available.

Arachniotus J. Schröt. 1893 (= *Disarticulatus* G.F. Orr 1977; = *Petalosporus* G.R. Ghosh, G.F. Orr & Kuehn 1963; = *Plunkettomyces* G.F. Orr 1977; = *Rollandina* Pat. 1905; = *Waldemaria* Bat., H. Maia & Cavalc. 1960 *fide* Species Fungorum 2017), *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, three species, type: *A. ruber* (Tiegh.) J. Schröt., asexual morph unknown, saprobes, from soil, Poland, see Lumbsch and Huhndorf (2010; outline), Ropars et al. (2012; DNA), Kirk et al. (2013; genus accepted), cultures available for the type: MUCL 39748.

Arachnocrea Z. Moravec 1956, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *A. stipata* (Fuckel) Z. Moravec, asexual morphs

?verticillium-like, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Arachnomyces Massee & E.S. Salmon 1902, *Arachnomycetaceae*, *Onygenales*, *Eurotiomycetes*, ten species, type: *A. nitidus* Massee & E.S. Salmon, asexual morph unknown, saprobes, Europe, see Gueidan et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence available for the type: AB075351.

Arachnopeziza Fuckel 1870 (= *Arachnopezizella* Kirschst. 1938; = *Arachnoscypha* Boud. 1885 *fide* Species Fungorum 2017), *Arachnopezizaceae*, *Helotiales*, *Leotiomycetes*, c. 15 species, type: *A. aurelia* (Pers.) Fuckel., asexual morph hyphomycetous, saprobes worldwide, common in temperate and subtropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; phylogeny), type in L herbarium, cultures and sequence are available but lacking for the type species.

Arachnophora Hennebert 1963 (= *Cacahualia* Mercado & R.F. Castañeda 1984; = *Sopagraha* Subram. & Sudha 1979 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *A. fagicola* Hennebert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Pratibha et al. (2011; new species), Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Arachnoscypha Boud. 1885, *Arachnopezizaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *A. aranea* (De Not.) Boud., sexual morph unknown, saprobes, UK, see Jaklitsch et al. (2016a; classification), Index Fungorum (2017; treated as a synonym of *Arachnopeziza* Fuckel), cultures and sequences are unavailable.

Arachnospora R.F. Castañeda, Minter & Camino 2003, *Ascomycota* genera *incertae sedis*, one species, type: *A. insolita* R.F. Castañeda, Minter & Camino, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: MUCL 42859, cultures and sequences are unavailable, compare with *Arachnophora* and *Iyengarina*.

Arachnotheca Arx 1971, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, three species, type: *A. glomerata* (E. Müll. & Pacha-Aue) Arx, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Sigler et al. (2013; DNA), culture available for the type: UAMH 3551.

Araneomyces Höhn. 1909 (= *Paranectriella* (Henn. ex Sacc. & D. Sacc.) Höhn. *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Paranectriellaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *A. acarifer* Höhn., sexual morph formerly known in *Paranectriella*, South America, see Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2014c, 2017; outline, nomenclature), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), cultures and sequences are unavailable.

Arborillus Munt.-Cvetk. & Gómez-Bolea 1998, *Ascomycota* genera *incertae sedis*, one species, type: *A. llimonae* Munt.-Cvetk. & Gómez-Bolea, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Arborispora K. Ando., 1986, *Ascomycota* genera *incertae sedis*, four species, type: *A. palma* K. Ando, in rainwater draining from leaves of *Quercus*: Honshu, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sexual morph unknown, cultures and sequences are unavailable.

Arbusculina Marvanová & Descals 1987, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *A. irregularis* (R.H. Petersen) Marvanová & Descals, asexual morph unknown, saprobes, aquatic, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Funck et al. (2015; DNA), cultures and sequences are available but lacking for the type species.

Archaeorhizomyces Rosling & T.Y. James 2011, *Archaeorhizomycetaceae*, *Archaeorhizomycetales*, *Archaeorhizomycetes*, two species (but many others are predicted from the analysis of environmental sequences), type: *A. finlayi* Rosling & T.Y. James, asexual morph unknown, saprobes, from soil, terrestrial, Sweden, Lithuania, see Rosling et al. (2011; taxonomy, phylogeny), Menkis et al. (2014; new species, Lithuania, phylogeny), holotype and ex-type cultures: MICH 72671, CBS 128710.

Architrypethelium Aptroot 1991, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, seven species, type: *A. seminudum* (Mont.) Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Aptroot and Lücking (2016; monograph), Lücking et al. (2017a; classification), sequences are available.

Arctocetraria Kärnefelt & Thell 1993, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *A. andrejevii* (Oxner) Kärnefelt & A. Thell, lichenized, terrestrial (corticolous or terricolous), Northern

Hemisphere (arctic), see Thell et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2011a; DNA, phylogeny), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA, phylogeny), Divakar et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Arctomia Th. Fr. 1860, *Arctomiaceae*, *Arctomiales*, *Lecanoromycetes*, ten species, type: *A. delicatula* Th. Fr. lichenized (cyanobacteria), terrestrial (saxicolous, terricolous or corticolous), cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Magain and Sérusiaux (2012; new species), Kirk et al. (2013; genus accepted), Otálora and Wedin (2013; DNA, phylogeny), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Arctomollisia Raitv. 2008, *Dermateaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *A. oxyparaphysata* (Rehm) Raitv., asexual morph unknown, saprobes, terrestrial, Magadan, see Raitviir (2008; taxonomy), cultures and sequences are unavailable.

Arctoparmelia Hale 1986, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *A. centrifuga* (L.) Hale, lichenized (green algae), terrestrial (mainly saxicolous), arctic and alpine regions of Northern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA, phylogeny), Divakar et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Arcuadendron Sigler & J.W. Carmich. 1976, *Ascomycota* genera *incertae sedis*, three species, type: *A. ovatum* Sigler & J.W. Carmich, hyphomycetous, sexual morph unknown, soil, India, former Yugoslavia, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), ex-type strain of type: ATCC 34519, CBS 122.77, sequences are unavailable.

Arecacicola Joanne E. Taylor, J. Fröhl. & K.D. Hyde 2001, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. calami* Joanne E. Taylor, J. Fröhl. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: HKU (M) 1126a, cultures and sequences are unavailable.

Arecomyces K.D. Hyde 1996, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, eleven species, type: *A. frondicola* K.D. Hyde, ascomycetous, asexual morph unknown, saprobes, reported only from palms, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Vitoria et al. (2011, new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Arecophila K.D. Hyde 1996, *Cainiaceae*, *Xylariales*, *Sordariomycetes*, 15 species, type: *A. gulubiicola* K.D. Hyde, asexual morph unknown, saprobes, South East Asia and Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lee et al. (2013a; sesquiterpenes from *A. saccharicola*), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data available for two species but lacking for the type.

Arenariomyces Höhnk 1954, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, five species, type: *A. trifurcatus* Höhnk, aquatic, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Areolospora S.C. Jong & E.E. Davis 1974, *Sordariomycetes* genera *incertae sedis*, two species, type: *A. terrophila* S.C. Jong & E.E. Davis, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Sordariomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Argentinomyces N.I. Peña & Aramb. 1997, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. naviculisporus* Peña & Aramb., asexual morph unknown, saprobes, marine, Argentina, Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Ascomycota* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: LPS 45469.

Argopericonia B. Sutton & Pascoe 1987, *Ascomycota* genera *incertae sedis*, two species, type: *A. elegans* B. Sutton & Pascoe, hyphomycetous, sexual morph unknown, saprobes, saprophytes, Australia, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need further revisions, holotype: VPRI13846.

Argopsis Th.Fr. 1857, *Lecanoromycetes* genera *incertae sedis*, three species, type: *A. megalospora* Th. Fr., lichenized, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Brigantiaeaceae*), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Argynna Morgan 1895, *Argynnaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *A. polyhedron* (Schwein.) Morgan, asexual morph unknown, saprobes,

terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Argynnaceae*, taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Aristastoma Tehon 1933, *Ascomycota* genera *incertae sedis*, one species, type: *A. concentrica* Tehon, coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Zhu et al. (2012; DNA, pathogens), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Arkoola J. Walker & Stovold 1986, *Dothideomycetes* genera *incertae sedis*, one species, type: *A. nigra* J. Walker & Stovold, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Zhang et al. (2011d; provisionally accepted as a genus in *Venturiaceae*), Hyde et al. (2013; did not accept as *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Armata W. Yamam. 1958, *Dothideomycetes* genera *incertae sedis*, one species, type: *A. macrospora* (W. Yamam.) W. Yamam., asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013; did not accept as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Arnaudiella Petr. 1927 (= *Seynesiola* Speg. 1918 *fide* Wu et al. 2011), *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, 13 species, type: *A. caronae* (Pass.) Petr., asexual morph hyphomycetous, saprophyte, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Armatella Theiss. & Syd. 1915 (= *Artallendea* Bat. & H. Maia 1960 *fide* Species Fungorum 2017), *Armatellaceae*, *Meliolales*, *Sordariomycetes*, 20 species, type: *A. litseae* (Henn.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, worldwide distribution, see Hosagoudar and Archana (2009; distribution on Lauraceae), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hosagoudar et al. (2013; new species), Hongsanan et al. (2015d, 2016c; family placement, evolution), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Arnium Nitschke ex G. Winter 1873, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, twelve species, type: *A. lanuginosum* Nitschke, asexual morph unknown, saprobes and coprophilous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Aropsiclus Kohlm. & Volkm.-Kohlm. 1994 (= *Sulcospora* Kohlm. & Volkm.-Kohlm. 1993 *fide* Species Fungorum 2017), *Sordariomycetes*, genera *incertae sedis*, one species, type: *A. junci* (Kohlm. & Volkm.-Kohlm.) Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Arpinia Berthet 1974, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, four species, type: *A. inops* Berthet, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Arrhenosphaera Stejskal 1974, *Ascosphaeraceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *A. craneae* Stejskal, asexual morph unknown, from bee hive, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), sequences and culture available.

Arthonia Ach. 1806 (see Species Fungorum 2017 for synonyms), *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, c. 500 species, type: *A. radiata* (Pers.) Ach. 1808, sexual morph with mainly apothecioid ascomata, asexual morph coelomycetous, lichenized, lichenicolous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010, 2014; outline), Ertz and Tehler (2011; phylogeny), Kirk et al. (2013; genus accepted), Frisch et al. (2014; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Arthophacopsis Hafellner 1998, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *A. parmeliarum* Hafellner, lichenicolous, terrestrial, North America, Europe (including Canary Islands), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype: Hafellner 41023 (GZU), cultures and sequences are unavailable.

Arthopyrenia A. Massal. [nom. cons.] 1852, *Arthopyreniaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *A. cerasi* (Schrad.) A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Arthopyreniaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Lücking et al. (2017a; classification), cultures and sequences are available.

Arthotheliopsis Vain. 1896, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *A. hymenocarpoides*

Vain., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Arthothelium A. Massal. 1852, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, c. 130 species, type: *A. spectabile* Flot. ex A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), polyphyletic, sequences are available.

Arthrinium Kunze 1817 (see Species Fungorum 2017 for synonyms), *Apiosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, 64 species, type: *A. caricicola* Kunze & J.C. Schmidt, saprobes, pathogenic, endophytic, terrestrial, widely distribute, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous and Groenewald (2013; phylogeny), Crous and Groenewald (2013; asexual morph, morphology, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; morphology, phylogeny), Dai et al. (2016, 2017; new species, sexual and asexual morph, morphology, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are unavailable for type species.

Arthrobotrys Corda 1839 (= *Dactylariopsis* Mekht. 1967; = *Dactylium* Nees 1816 [1816-17]; = *Didymozoophaga* Soprunov & Galiulina 1951; = *Duddingtonia* R.C. Cooke 1969; = *Monacrosporium* Oudem. 1885; = *Orbiliella* Kirschst. 1938; = *Woroninula* Mekht. 1979 *fide* Species Fungorum 2017; see Baral et al. 2015 for additional synonyms), *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, 112 species, type: *A. superba* Corda, sexual morph unknown, nematophagous, terrestrial, marine, worldwide see Han et al. (2008; extrolite profiling), Li et al. (2008c, 2009a; taxonomic revision, new species), Swe et al. (2008; new species, marine), Wang et al. (2008b, 2013a, e; amino acid effect, mutant predatory activity, immunological effect of nanoparticles), Braga et al. (2009, 2010, 2014; predatory activity), Ranjbar-Bahadori et al. (2010; in vivo study), Silva et al. (2010; control sheep gastroenteritis), Zhang et al. (2011f, 2012b, 2013e; phylogeny, metabolites study, genetic diversity), Carvalho et al. (2011; predatory activity after freeze dry), Niu and Zhang (2011; review), Su et al. (2011a; new species), Wei et al. (2011; Arthrobotrisins, chitinase encoding gene analysis), Yang et al. (2011b, 2013; genomics, proteomics), Freire et al. (2012; effect of Fusarium extrolites), Qiao et al. (2012; description), Singh et al. (2012, 2013c; role in plant immunity, biocontrol potential), Wu et al. (2013a; new species, metabolite profiling), Arias et al. (2013; developmental biology), Chen et al. (2013c; trap formation), Falbo et al. (2013; characterization), Jamshidnejad et al. (2013; biocontrol activity), Liang et al. (2013, 2015; cell signalling, proteomic and transcriptional analyses), Wang et al. (2013a; nematophagous), Zhang et al. (2013e; nematode trapping), Braga et al. (2014; predatory activity after preservation), Liu et al. (2014c; new species), Mostafanezhad et al. (2014; nematode control), Pandit et al. (2014; protease study), Zhao et al. (2014b; malate synthase gene), Baral et al. (2015; nomenclature), sequences are available for few species, including type: KT215210.

Arthrobotryum Ces. 1854 (= *Arthrographium* Ces. 1854; = *Lindauomyces* Koord. 1907; = *Wettsteiniella* Kuntze 1891 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, five species, type: *A. stilboideum* Ces., coelomycetous, sexual morph unknown, widespread, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Arthromoniliphora S.S. Silva, Gusmão & R.F. Castañeda, *Ascomycota* genera *incertae sedis*, one species, type: *A. araucariae* S.S. Silva, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Silva et al. (2016; taxonomy), cultures and sequences are unavailable, compare with *Arthrographis*, *Geomyces*, *Geotrichum*, *Thedgonia*.

Arthrocatena Egidi & Selbmann 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *A. tenebrio* Egidi & Selbmann, rock-inhabiting fungus, conidia resulting from arthric secession, sexual morph unknown, see Egidi et al. (2014; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), ex-type cultures available for the type: CBS 136100 = CCFEE 5413.

Arthrocladiella Vassilkov 1960, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, one species, type species: *A. mougeotii* (Lév.) Vassilkov (≡ *Microsphaera mougeotii* Lév.), asexual morph hyphomycetous, obligate plant pathogen, terrestrial, almost worldwide, see Braun and Cook (2012; taxonomy), lectotype: France, Vaugirard, on *Lycium europaeum*, ex herb. Léveillé (PC), sequences available.

Arthrocladium Papendorf 1969, *Trichomeriaceae*, *Chaetothyriales*, *Eurotiomycetes*, four species, type: *A. caudatum* Papendorf, asexual morph hyphomycetous, saprobes, terrestrial, Africa and Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Nascimento et al. (2016; phylogeny, human opportunist), ex-type strains of type: CBS 457.67.

Arthrocristula Sigler, M.T. Dunn & J.W. Carmich. 1982, *Ascomycota* genera *incertae sedis*, one species, type: *A. hyphenata* Sigler, M.T. Dunn & J.W. Carmich.,

hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Arthroderma Curr. 1860 (= *Nannizzia* Stockdale 1961 *fide* Species Fungorum 2017), *Arthrodermataceae*, *Onygenales*, *Eurotiomycetes*, 41 species, type: *A. curreyi* Berk, asexual morph unknown, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), sequences and culture are available for type: NCPF 0797.

Arthrographis G. Cochet ex Sigler & J.W. Carmich. 1976, *Eremomycetaceae*, *Dothideomycetes* families *incertae sedis*, twelve species, type: *A. kalrae* (R.P. Tewari & Macph.) Sigler & J.W. Carmich., hyphomycetous, sexual morph unknown, saprobes, on human, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Giraldo et al. (2014a; phylogeny, new species), cultures available for type: CBS 693.77.

Arthropsis Sigler, M.T. Dunn & J.W. Carmich. 1982, *Onygenales*, *Eurotiomycetes*, four species, type: *A. truncata* Sigler, M.T. Dunn & J.W. Carmich., hyphomycetous, sexual morph unknown, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, need generic revision.

Arthrorhaphis Th. Fr. [nom. cons.] 1860 (= *Gongylia* Körb. 1855; = *Mycobacidia* Rehm 1890 [1896]; = *Parathalle* Clem. 1909; = *Raphiospora* A. Massal. 1853 *fide* Species Fungorum 2017), *Arthrorhaphidaceae*, order *incertae sedis*, *Lecanoromycetes*, 13 species, type: *A. flavovirescens* (A. Massal.) Th. Fr.; lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Arthrorhynchus Kolen. 1857 (= *Helminthophana* Peyr. 1873 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, one additional species (*A. acrandros* Merola) is doubtful, type: *A. nycteribiae* (Peyr.) Thaxt., asexual morph unknown, biotrophic, hosts are Nycteribiidae (Diptera: Hippoboscoidea), Eastern Hemisphere distribution, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted) Haelewaters et al. (2017a; review, DNA), sequences are available for type species.

Arthrosporium Sacc. 1880 (= *Phragmostilbe* Subram. 1959 *fide* Seifert et al. 2011), *Ascomycota* genera *incertae sedis*, two species, type: *A. albicans* (Sacc.) Sacc., hyphomycetous, sexual morph unknown, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Arthrosporum A. Massal. 1853 (= *Arthrospora* Th. Fr. 1861 *fide* Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *A. populorum* Massal., with ascomata, lichenized (green algae), terrestrial (corticolous), Northern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Arthrowallemia R.F. Castañeda, Dania García & Guarro 1998, *Ascomycota* genera *incertae sedis*, two species, type: *A. formosa* R.F. Castañeda, Dania García & Guarro, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: INIFAT C95/88, sequences are unavailable, compare with *Arthrocristala*, *Bahusakala* and *Parasympodiella*.

Arthroxylaria Seifert & W. Gams 2002, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *A. elegans* Seifert & W. Gams, hyphomycetous, sexual morph unknown, terrestrial, saprobes, North America, see Seifert et al. (2011; morphology), Wendt et al. (2017; placed in *Hypoxylaceae*), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Articulophora C.J.K. Wang & B. Sutton 1982, *Ascomycota* genera *incertae sedis*, one species, type: *A. variispora* C.J.K. Wang & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype: Wang 11021.

Articulospora Ingold 1942, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *A. tetracladia* Ingold, hyphomycetous, saprobes, endophytic, aquatic, worldwide, see Seifert et al. (2011; morphology), Seena et al. (2012; phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Baschien et al. (2013; phylogeny), compare with *Geniculospora* and *Isthmotricladia*.

Artocarpomyces Subram. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *A. paradoxa* Subram., saprobes, terrestrial, Singapore, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: MUBL 3147, cultures and sequences are unavailable.

Arundellina Wanas., E.B.G. Jones & K.D. Hyde 2016, *Lindgomycetaceae*, *Pleosporales*, *Dothideomycetes*, one

species, type: *A. typhae* Wanas., E.B.G. Jones & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, UK, see Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 16-1276, MFLUCC 16-0310.

Arwidssonia B. Erikss. 1974, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *A. empetri* (Rehm) B. Erikss., asexual morph unknown, plant pathogen, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Arxiella Papendorf 1967, *Dothideomycetes*, genera *incertae sedis*, one species, type: *A. terrestris* Papendorf, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014d; DNA, new species), cultures and sequences are available but lacking for the type.

Arxiomyces P.F. Cannon & D. Hawksw. 1983 (= *Ceratostoma* Pers. 1818; = *Phaeostoma* Arx & E. Müll. 1954 *fide* Species Fungorum 2017), *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *A. vitis* (Fuckel) P.F. Cannon & D. Hawksw., asexual morph unknown, on bark, Europe, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Asahinea W.L. Culb. & C.F. Culb. 1965, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, four species; type: *A. chrysantha* (Tuck.) W.L. Culb. & C.F. Culb., lichenized, terrestrial (saxicolous or on plant debris), arctic-montane, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Asaphomyces Thaxt. 1931 (= *Barbariella* Middelh. 1949 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *A. cholevae* Thaxt., asexual morph unknown, parasitic on Leiodidae beetles, terrestrial, widespread, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascitendus J. Campb. & Shearer 2004, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *A. austriacus* (Réblová, Winka & Jaklitsch) J. Campb. & Shearer, asexual morph unknown, saprobes, fresh water, terrestrial, Austria, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: PRM 842991, cultures available for the type: CBS 131685.

Ascluella DiCosmo, Nag Raj & W.B. Kendr. 1983, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. symplocina* (P. Syd.) DiCosmo, Nag Raj & W.B. Kendr., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascobolus Pers. 1792 (= *Anserina* Velen. 1934; = *Ascobolus* sect. *Sphaeridiobolus* (Boud.) Brumm. 1967; = *Ascobolus* subgen. *Dasyobolus* Sacc. 1889; = *Crouaniella* (Sacc.) Lambotte 1887 [1888]; = *Dasyobolus* (Sacc.) Sacc. 1895; = *Phaeopezia* subgen. *Crouaniella* Sacc. 1884; = *Seliniella* Arx & E. Müll. 1955; = *Sphaeridiobolus* Boud. 1885 *fide* Species Fungorum 2017), *Ascobolaceae*, *Pezizales*, *Pezizomycetes*, c. 70 species, type: *A. pezizoides* Pers., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Doveri (2011, 2014; worldwide key), Mungai et al. (2012e; from dung), Aluoch et al. (2015; fungi on wildlife dung), cultures and sequences are available but lacking for the type species.

Ascocalathium Eidam ex J. Schröt. (1893) [1908], *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *A. stipitatum* Eidam ex J. Schröt., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, treated as *Pyronemataceae*), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ascocalvatia Malloch & Cain 1971, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *A. alveolata* Malloch & Cain, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), culture available for the type: ATCC 22147.

Ascocalyx Naumov 1926 (= *Bothrodiscus* Shear 1907; = *Lagerbergia* J. Reid 1971 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Godroniaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *A. abietis* Naumov, asexual morph *Bothrodiscus*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available.

Ascocephalophora K. Matsush. & Matsush. 1995, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, one species, type: *A. petasiformis* K. Matsush. & Matsush., Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascochalara Réblová 1999, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type:

A. gabretae Réblová, asexual morph chalara-like, saprobes, Czech Republic, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequence available but lack for the type species, generic placement is based on non-type species.

Ascochyta Lib. 1830 (= *Ascochyta* subgen. *Ascochytula* Potebnia 1907; = *Ascochytella* Tassi 1902; = *Ascochytula* (Potebnia) Died. 1912; = *Macrodiplodina* Petr. 1962 [1961]; = *Stagonosporopsis* Died. 1912 *fide* Species Fungorum 2017), *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. 400 species, type: *A. pisi* Lib., coelomycetous, saprobes, pathogens, terrestrial, worldwide, see Chilvers et al. (2009; pathogens), Aveskamp et al. (2010; phylogeny), de Gruyter et al. (2009; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), Chen et al. (2015b; taxonomy, phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available, needs generic revision as more than 1000 records are available.

Ascochytopsis Henn. 1905 (= *Cryptogene* Syd. 1939; = *Cryptogenella* Syd. 1939; = *Scleroparodia* Petr. 1934 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, five species, type: *A. vignae* Henn., coelomycetous, saprobes, endophytic, pathogenic, terrestrial and aquatic, cosmopolitan, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascochytulina Petr. 1922 (= *Clypeodiplodina* F. Stevens 1927 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *A. deflectens* (P. Karst.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascoclavulina Otani 1974, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, eight species, type: *A. sakaii* Y. Otani, asexual morph gliomastix-like, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascocodinaea Samuels, Cand. & Magni 1997, *Glomerellales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *A. stereicola* Samuels, Cand. & Magni, asexual morph dictyochaeta-like, saprobes, on old polypore, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ascoconidium Seaver 1942 (= *Sageria* A. Funk 1975 *fide* Johnston et al. 2014b), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *A. castaneae* Seaver, hyphomycetous, sexual morph formerly known in *Sageria*, saprobes, Asia, North America, see Seifert et al. (2011; morphology), Johnston et al. (2014b; nomenclature), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascocorticiellum Jülich & B. de Vries 1982, *Ascocorticiaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *A. vermisporum* (Hauerslev) Jülich & B. de Vries, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ascocorticium Bref. 1891, *Ascocorticiaceae*, *Helotiales*, *Leotiomycetes*, eight species, type: *A. albidum* Bref. & Tavel, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ascocoryne J.W. Groves & D.E. Wilson 1967 (= *Coryne* Nees 1816; = *Pirobasidium* Höhn. 1902; *Pleurocolla* Petr. 1924; = *Endostilbum* Malençon 1964 *fide* Johnston et al. 2014b), *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, eight species, type: *A. sarcoides* (Jacq.) J.W. Groves & D.E. Wilson, asexual morph *Monilia*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Johnston et al. (2014b; nomenclature), Zhu et al. (2016; pathogens, phylogeny), cultures and sequences are available.

Ascocratera Kohlm. 1986, *Aigialaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. manglicola* Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Schoch et al. (2009; phylogeny), Suetrong et al. (2009; phylogeny, morphology), Besitulo et al. (2010; diversity), Zainuddin et al. (2010; antimicrobial activities), Pang et al. (2010b; diversity), Sakayaroj et al. (2011b; diversity), Zhang et al. (2012e, 2016a; phylogeny), Boonmee et al. (2012; phylogeny), Jones et al. (2012; phylogeny, review), Lee et al. (2012; checklist), Ariyawansa et al. (2014a; phylogeny), Wanasinghe et al. (2015; phylogeny), holotype and ex-isotype of type: J.K. 4812a (FH), J.K.4812b (IMS).

Ascocylindrica Abdel-Wahab, Bahkali & E.B.G. Jones 2015, *Ascocylindricaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. marina* Abdel-Wahab, Bahkali & E.B.G. Jones, asexual morph unknown, saprobes, marine, Saudi Arabia, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype of the type: MFLU 15-0750

Ascodesmis Tiegh. 1876, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, six species, type: *A. aurea* Tiegh., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Doveri (2011;

new record from Italy), Hansen et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for type species.

Ascodichaena Butin 1977 (= *Polymorphum* Chevall. 1822 *fide* Johnston et al. 2014b), *Ascodichaenaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *A. rugosa* Butin, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), culture available for type: DSM 4703.

Ascofascicula Matsush. 2003, *Ascomycota* genera *incertae sedis*, six species, type: *A. talaroluteoides* Matsush., asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available but lacking for type species.

Ascographa Velen. 1934, *Lecanoromycetes* genera *incertae sedis*, *Leotiomycetes*, one species, type: *A. hederae* Velen., asexual morph unknown, former Czechoslovakia, on decaying trunk of *Hederae helicis*, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ascoidea Bref. 1891, *Ascoideaceae*, *Saccharomycetales*, *Saccharomycetes*, three species, type: *A. rubescens* Bref., asexual morph unknown (by budding of cells and formation of hyphae), saprophyte, terrestrial, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Ascolacicola Ranghoo & K.D. Hyde 1998, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. aquatica* Ranghoo & K.D. Hyde, asexual morph trichocladium-like, saprobes, aquatic, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Ascolectus Samuels & Rogerson 1990, *Saccardiaceae*, *Ascomycota* families *incertae sedis*, one species, type: *A. albus* Samuels & Rogerson, asexual morph unknown, saprobes, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascomauritiana Ranghoo & K.D. Hyde 1999, *Ascomycota* genera *incertae sedis*, one species, type: *A. lignicola* Ranghoo & K.D. Hyde, asexual morph unknown, saprobes, aquatic, Mauritius, see Kirk et al. (2013; genus accepted), holotype of type species HKU (M) 5255.

Ascominuta Ranghoo & K.D. Hyde 2000, *Dothideomycetes* genera *incertae sedis*, two species, type: *A. lignicola* Ranghoo & K.D. Hyde, asexual morph unknown, saprobes, aquatic, Thailand, Hong Kong, see Wijayawardene et al. (2014c; outline), holotype: HKU (M) 5246.

Ascophanus Boud. 1869, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, one species, type: *A. granuliformis* (P. Crouan & H. Crouan) Boud., asexual morph unknown, saprobes, terrestrial, Antarctica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bansal et al. (2014; antifreeze proteins), cultures and sequences are available.

Ascopolyporus Möller 1901, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *A. polychrous* Möller, asexual morph unknown, saprobes, terrestrial, Central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ascoporia Samuels & A.I. Romero 1993 (= *Pseudosolidum* Lloyd (as McGinty) 1923 *fide* Hyde et al. 2013), *Ascoporiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *A. lateritia* Samuels & A.I. Romero, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures are unavailable.

Ascorhiza Lecht.-Trinka 1931, *Sordariomycetes*, genera *incertae sedis*, one species, type: *A. leguminosarum* Lecht.-Trinka, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ascorhizoctonia Chin S. Yang & Korf 1985, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, seven species, type: *A. praecox* Chin S. Yang & Korf, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Ascorhombispora L. Cai & K.D. Hyde 2007, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *A. aquatica* L. Cai & K.D. Hyde, asexual morph unknown, China, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), holotype: HKU (M) 10859, cultures and sequences are available.

Ascoronospora Matsush. 2003, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *A. yakuensis* Matsush., asexual morph coronospora-like, saprobes, terrestrial, Japan, see Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ascosacculus J. Campb., J.L. Anderson & Shearer 2003, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two

species, type: *A. aquaticus* (K.D. Hyde) J. Campb., J.L. Anderson & Shearer, saprobes, aquatic, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Ascosorus Henn. & Ruhland 1900 (= *Gymnoascopsis* C. Moreau & M. Moreau 1959 *fide* Species Fungorum 2017), *Ascocorticiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *A. floridanus* (Ellis & G. Martin) Henn. & Ruhland, asexual morph unknown, saprobes, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ascosparassis Kobayasi 1960, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *A. shimizuensis* Kobayasi, saprobes, terrestrial, tropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ascosphaera L.S. Olive & Spiltoir 1955 (= *Pericystis* Betts 1912 *fide* Species Fungorum 2017), *Ascosphaeraceae*, *Onygenales*, *Eurotiomycetes*, c. 30 species, type: *A. apis* (Maasen ex Claussen) L.S. Olive & Spiltoir, pathogens, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences and culture available for type: NBRC 31608.

Ascostratum Syd. & P. Syd. 1912, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, two species, type: *A. insigne* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, South Africa, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tian et al. (2014; morphology, nomenclature, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ascotaiwania Sivan. & H.S. Chang 1992, *Savoryellaceae*, *Savoryellales*, *Sordariomycetes*, 13 species, type: *A. lignicola* Sivan. & H.S. Chang, asexual morph hyphomycetous, saprobes, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Boonyuen et al. (2011; review, phylogeny), Maharachchikumbura et al. (2015b, 2016b), holotype: IMI 348977 sequences available.

Ascotremella Seaver 1930, *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *A. faginea* (Peck) Seaver, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ascotricha Berk. 1838 (= *Dicyma* Boulanger 1897; = *Gonytrichella* Emoto & Tubaki 1971; = *Puciola* De Bert. 1976 *fide* Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *A. chartarum* Berk., asexual morph unknown, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Cheng et al. (2015; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ascotrichella Valldos. & Guarro 1988, *Xylariales*, genera *incertae sedis*, *Sordariomycetes*, one species, type: *A. hawksworthii* Valldos. & Guarro, asexual morph hyphomycetous, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ascovaginospora Fallah, Shearer & W.D. Chen 1997, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *A. stellipala* Fallah, Shearer & W.D. Chen, saprobes, aquatic, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariomycetidae*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: ILLS 52319, sequences are available.

Ascoyunnania L. Cai & K.D. Hyde 2005, *Sordariomycetes* genera *incertae sedis*, two species, type: *A. aquatica* L. Cai & K.D. Hyde, saprobes, aquatic, China, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ascozonus (Renny) E.C. Hansen 1877 (= *Ascobolus* sect. *Ascozonus* Renny, Trans. 1873 [1871-1873]; = *Gymnodiscus* Zukal 1887; = *Streptotheca* Vuill. 1887; = *Zukalina* Kuntze 1891 *fide* Species Fungorum 2017), *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, c. six species, type: *A. cunicularius* (Boud.) Marchal, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but acks for the type species.

Ashtaangam Subram. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *A. sundaram* Subram., hyphomycete, sexual morph unknown, saprobe, terrestrial, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: MUBL 3127.

Aspergillus P. Micheli ex Haller 1768 (= *Chaetosartorya* Subram. 1972; = *Cristaspora* Fort & Guarro 1984; = *Dichotomomyces* Saito ex D.B. Scott 1970; = *Emericella* Berk. 1857; = *Eurotium* Link 1809; = *Fennellia* B.J. Wiley & E.G. Simmons 1973; = *Neocarpenteles* Udagawa & Uchiy. 2002; = *Neopetromyces* Frisvad & Samson 2000; = *Neosartorya* Malloch & Cain 1973; = *Petromyces* Malloch & Cain 1973; = *Phialosimplex* Sigler, Deanna A. Sutton, Gibas, Summerb. & Iwen 2010; = *Polypaecilum* G. Sm. 1961),

Aspergillaceae, *Eurotiales*, *Eurotiomycetes*, c. 360 species, type: *A. glaucus* (L.) Link, mostly terrestrial, but also reported from aquatic environments, mainly saprobes associated with soil, plant material and foodstuffs, but also including phytopathogenic and clinically-relevant fungi causing opportunistic mycoses (aspergillosis) and mycotoxicoses in various vertebrates including humans, cosmopolitan, monophyletic but morphologically diverse both in its sexual and asexual morphs, see Peterson (2008; phylogeny), Sigler et al. (2010b; morphology as "*Phialosimplex*"), Varga et al. (2010a, b, 2011; phylogeny, new species, mycotoxins), Houbraken and Samson (2011; phylogeny), Guarro et al. (2012; selected soil borne species), Hubka et al. (2013a, b, c, 2015, 2016a, 2016b; phylogeny, new combinations, new species), Asgari et al. (2014; new species, sexual morph), Samson et al. (2014; polyphasic taxonomy, new species, outline), Sugui et al. (2014; new species), Crous et al. (2015e; new species), Guinea et al. (2015; new species), Jurjević et al. (2015; new section and new species), Arzanlou et al. (2016b; new species), Tsang et al. (2016; new species), Visagie et al. (2017; new species), ex-neotype: CBS 516.65, sequences are available.

Asperisporium Maubl. 1913, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, twelve species, type: *A. caricae* (Speg.) Maubl., hyphomycetous, saprobes, terrestrial, America, see Seifert et al. (2011; morphology), Minnis et al. (2011; phylogeny, typification), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), ex-epitype strains of type: CBS 130298.

Asperopilum Spooner 1987, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *A. juncicola* (Dennis) Spooner, asexual morph unknown, saprobes, terrestrial, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Aspicilia A. Massal. [nom. cons.] 1852 (= *Agrestia* J.W. Thomson 1961; = *Athecaria* Nyl. 1897; = *Chlorangium* Link 1849; *Manzonia* Garov. 1866; *Paraplacodium* Motyka 1996; *Sagedia* Ach. 1809; *Sphaerothallia* Nees ex Eversm. 1831; = *Urceolaria* Hook. 1821 *fide* Species Fungorum 2017), *Megasporaceae*, *Pertusariales*, *Lecanoromycetes*, 200 species, type: *A. cinerea* (L.) Körb., lichenized (green algae), worldwide, see Lumbsch and Huhndorf (2010; outline), Nordin et al. (2010; phylogeny), Sohrabi et al. (2010a; DNA), Raggio et al. (2011; survive exposure to space), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Aspiciliopsis (Müll. Arg.) M. Choisy 1929, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, one species; type: *A. macrophthalma* (Hook. f. & Taylor) B. de Lesd., lichenized, see Hodkinson and Lendemer (2011b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Aspidothelium Vain. 1890 (= *Aspidopyrenis* Clem. & Shear 1931; = *Aspidopyrenium* Vain. 1890; = *Aspidotheliomyces* Cif. & Tomas. 1953; = *Lecania* sect. *Secoligella* Müll. Arg. 1919 [1918]; = *Porinopsis* Malme 1928; = *Secoligella* (Müll. Arg.) Vain. 1896 *fide* Species Fungorum 2017), *Thelenellaceae*, *Ostropales*, *Lecanoromycetes*, 17 species, type: *A. cinerascens* Vain., lichenized, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Aspidotheliaceae*), Kirk et al. (2013; genus accepted), Aptroot et al. (2014d; new species), Nelsen et al. (2016; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Aspilaima Bat. & H. Maia 1961, *Ascomycota* genera *incertae sedis*, one species, type: *A. platoniae* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Aspilidea Hafellner 2001, *Ostropomycetidae* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *A. myrinii* (Fr.) Hafellner, lichenized (green algae), terrestrial (saxicolous), restricted to the alpine zone, see Jørgensen and Nordin (2009, DNA), Lumbsch and Huhndorf (2010; outline), Nordin et al. (2010; taxonomy), Lücking et al. (2017a; classification), sequences unavailable.

Asteridiella McAlpine 1897 (= *Irene* Theiss. 1917; = *Meliola* subgen. *Irene* (Theiss., Syd. & P. Syd.) 1938; = *Parasteridiella* H. Maia 1960 *fide* Species Fungorum 2017), *Meliolaceae*, *Meliolales*, *Sordariomycetes*, more than 300 species, type specie: *A. solani* McAlpine, asexual morph unknown, pathogens saprobes, terrestrial, worldwide, see Hosagoudar and Archana (2009; host distribution in India), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013 genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Asterina Lév. 1845 (see Hongsanan et al. 2014c for synonyms), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, more than 700 species, type: *A. melastomatis* Lév., asexual morph coelomycetous or hyphomycetous (=asterostomella-like, clasterosporium-like and mahanteshomyces-like, *fide* Hofmann 2009), epiphytes, biotrophic, terrestrial, worldwide, most species do not have molecular data, see Hofmann (2009; review, DNA), Hosagoudar et al. (2010a; morphology of *Bheemamyces*), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Hongsanan et al. (2014c, 2016c; taxonomy, DNA, keys, nomenclature, evolution), Wijayawardene et al. (2014c;

outline), Guatimosim et al. (2015; phylogeny, taxonomy, DNA), Liu et al. (2017, phylogeny), cultures and sequences are available.

Asterinella Theiss. 1912 (= *Calothyrium* Theiss. 1912; = *Opasterinella* Speg. 1919 [1918] *fide* Species Fungorum 2017), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, c 40 species, type: *A. puiggarii* (Speg.) Theiss., asexual morph coelomycetous (=asterostomula-like), epiphytes, biotrophic, terrestrial, worldwide, no molecular data, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriacae*), Wijayawardene et al. (2014c; outline), Wu et al. (2014b; review, transferred to *Asterinaceae*), holotype: LPS 1377, cultures and sequences unavailable.

Asterinema Bat. & Gayão 1953, *Dothideomycetes* genera *incertae sedis*, one species, type: *A. puiggarii* (Speg.) Theiss., asexual morph unknown, foliar epiphytes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; accepted as a genus in *Dothideomycetes* genera *incertae sedis*), Wu et al. (2014b; accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Asterinothyriella Bat. & Cif. 1959, *Ascomycota* genera *incertae sedis*, three species, type: *A. landolphiae* Bat. & Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, Uganda, see Wijayawardene et al. (2012, 2014c, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asterinothyrium Bat., Cif. & H. Maia 1959, *Ascomycota* genera *incertae sedis*, one species, type: *A. singulatum* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asteristion Leight. 1870, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *A. erumpens* Leight., asexual morph unknown, lichenized fungi, terrestrial, tropical, placement in *Graphidaceae* supported by molecular data, new synonym *Phaeotrema* Müll.Arg., see Lücking et al. (2014, 2017a; classification), sequences are available.

Asteroconium Syd. & P. Syd. 1903, *Ascomycota* genera *incertae sedis*, two species, type: *A. saccardoi* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central America, China, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013 genus accepted), cultures and sequences are unavailable.

Asterodiscus Voglmayr, Gardiennet & Jaklitsch 2016, *Stigmatodiscaceae*, *Stigmatodiscales*, *Dothideomycetes*, two species, type: *A. tamaricis* Voglmayr, Gardiennet & Jaklitsch, asexual morph coelomycetous, saprobes, Europe, see Voglmayr et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: WU 35906, cultures and sequences are available.

Asterodothis Theiss. 1912, *Dothideomycetes* genera *incertae sedis*, one species, type: *A. solaris* (Kalchbr. & Cooke) Theiss., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Kirk et al. 2013; genus accepted), Hongsanan et al. (2014c; transferred this genus from *Asterinaceae* to *Dothideomycetes* genera *incertae sedis*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Asteroglobulus Brackel 2011, *Ascomycota* genera *incertae sedis*, one species, type: *A. giselae* Brackel, coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Europe, see Brackel (2011a; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Asteroma DC. 1815 (= *Actinonemella* Höhn. 1916; = Depazea Fr. 1818; = *Gloeosporina* Höhn. 1916; = *Ribaldia* Cif. 1954; = *Titaeosporina* Luijk 1920 *fide* Sutton 1977; Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, more than 200 species, type: *M. stellaris* (Pers.) Theiss. & Syd., sexual morph *Gnomoniella*, *Plagiostoma*, pathogens associated with leaf spots, saprobes, terrestrial, worldwide distribution, see Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available for *A. alneum*.

Asteromassaria Höhn. 1917, *Dothideomycetes* genera *incertae sedis*, type: *A. macrospora* (Desm.) Höhn., twelve species but could be higher, asexual morph coelomycetous, saprobes, parasites, terrestrial, Europe, India, Japan, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Pleomassariaceae*), Zhang et al. (2012e; accepted as a genus in *Morosphaeriaceae*), Hyde et al. (2013; did not list in *Pleomassariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline as *Dothideomycetes incertae sedis*), holotype of type: CBS H-15119, cultures and sequences are available but lacking for the type species.

Asteromella Pass. & Thüm. 1880 (= *Apiosporella* Speg. 1912; = *Aplosporidium* Speg. 1912; = *Plectophoma* Höhn. 1907; = *Porterula* Speg. 1920; = *Stictochorella* Höhn. 1917; = *Stictochorellina* Petr. 1922 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, c. 265 species, type: *A. ovata* Thüm., polyphyletic, coelomycetous, sexual morph unknown, widespread, see Hyde et al. (2011; outline), Wijayawardene et al.

(2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available.

Asteromellopsis H.E. Hess & E. Müll. 1951, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, one species, type: *A. insculpta* H.E. Hess & E. Müll., saprobes, Switzerland, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asteromidium Speg. 1888 (= *Asterostomidium* Lindau 1900 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *A. imperspicuum* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asteromyces Moreau & M. Moreau ex Hennebert 1962, *Ascomycota* genera *incertae sedis*, one species, type: *A. cruciatus* Moreau & M. Moreau ex Hennebert, hyphomycetous, on seaweeds, sand grains, drift wood, saprobe, mostly marine temperate, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Gulder et al. (2012; biochemistry), Jones et al. (2015; outline), cultures and sequences are unavailable.

Asteronectrioidea Cant. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *A. heveicola* Cant., possibly hyphomycetous, sexual morph unknown, saprobes, Africa, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asteronia (Sacc.) Henn. 1895 (= *Asterina* subgen. *Asteronia* Sacc. 1882 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, two species, type: *A. sweetiae* Henn., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Asteroporum Müll. Arg. 1884 (= *Asteroporomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, seven species, type: *A. perminimum* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017b; classification), sequences are unavailable.

Asteroscutula Petr. 1948, *Ascomycota* genera *incertae sedis*, one species, type: *A. sydowii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Ecuador, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013 genus accepted), cultures and sequences are unavailable.

Asterosporium Kunze 1819, *Asterosporiaceae*, *Diaporthales*, *Sordariomycetes*, seven species, type: *A. asterospermum* (Pers.) Hughes, coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Tanaka et al. (2010; taxonomy, phylogeny), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 112404.

Asterostomopora Bat. & H. Maia 1960, *Ascomycota* genera *incertae sedis*, one species, type: *A. jamaicensis* Bat. & H. Maia, coelomycetous, Jamaica, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asterostomopsis Bat., Cif. & H. Maia 1959, *Ascomycota* genera *incertae sedis*, one species, *A. ghanaensis* Bat., Cif. & H. Maia, coelomycetous, rarely reported and in case on leaves of *Lawsonia inermis* in Ghana and India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), and sequences are unavailable.

Asterostomula Theiss. 1916, *Ascomycota* genera *incertae sedis*, four species, type: *A. loranthi* Theiss., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Asterostomulina Bat., J.L. Bezerra & H. Maia 1964, *Ascomycota* genera *incertae sedis*, one species, type: *A. phoebeicola* Bat., J.L. Bezerra & Cavalc., coelomycetous, sexual morph unknown, rarely reported and in case on *Phoebe rivularis*, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Asterotexis Arx 1958, *Asterotexaceae*, *Asterinales*, *Dothideomycetes*, two species, type: *A. cucurbitacearum* (Rehm) Arx, asexual morph unknown, epiphytes, pathogens, biotrophic, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hyde et al. (2013; review, keys, accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, keys, accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Asterinaceae*), Guatimosim et al. (2015; phylogeny, DNA, transferred to a newly described family *Asterotexaceae*), Liu et al. (2017, phylogeny, placement), placement in *Asterotexaceae* supported by morphology and phylogeny, syntype: S-F7565, type sequence KP143734 (voucher VIC 24814), HQ610510 (voucher PMA M-0141224).

Asterothyrium Müll. Arg. 1890 (= *Actinoteichus* Cavalc. & Poroca 1971; = *Asterothyriomyces* Cif. & Tomas. 1953; = *Diplopeltopsis* Henn. ex Höhn. 1911; = *Psorotheciella* Sacc. & P. Syd. 1905 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, 33 species; type: *A. argenteum* Müll. Arg., lichenized, see Flakus and Lücking (2008; new

species), Lücking et al. (2017a; classification), sequences are available.

Astomella Thirum. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *A. neolitseae* Thirum., saprobes, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Astrochapsa Parnmen, Lücking & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 26 species, type: *A. astroidea* (Berk. & Broome) Parnmen, Lücking & Lumbsch, asexual morph unknown, ascomata apotheciate, conidiomata pycnidial, lichen-forming, corticolous, pantropical, see Parnmen et al. (2012; taxonomy, phylogeny), Rivas Plata et al. (2013; phylogeny), Lumbsch et al. (2014a, b; classification).

Astrocystis Berk. & Broome 1873, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, c. 20 species, type: *P. invocans* Morgan, asexual morph unknown, saprobes, North America, Asia, see Lumbsch and Huhndorf (2010; outline), Pinnoi et al. (2010; new species), Kirk et al. (2013; genus accepted), Daranagama et al. (2015a; new species, DNA), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Astronatelia Bat. & H. Maia 1962, *Ascomycota* genera *incertae sedis*, one species, type: *A. andromedae* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013 genus accepted), cultures and sequences are unavailable.

Astrosphaeriella Syd. & P. Syd. 1913 (= *Asterella* Hara 1936; = *Asterotheca* I. Hino 1938; = *Astrosphaeria* (Höhn.) Syd. 1913; = *Astrotheca* I. Hino 1938; = *Leptosphaeria* sect. *Astrosphaeria* Höhn. 1909 *fide* Species Fungorum 2017), *Astrosphaeriellaceae*, *Pleosporales*, *Dothideomycetes*, c. 10 species, type: *A. fusispora* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, widespread, see Tanaka et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Liu et al. (2011b; phylogeny), Zhang et al. (2012e; morphology, phylogeny), Kirk et al. (2013; genus accepted), Ren et al. (2013b; phylogeny), Phookamsak et al. (2015b; taxonomy, phylogeny), cultures available for type: MFLUCC 10-0555.

Astrosphaeriellopsis Phook., J.K. Liu & K.D. Hyde 2015, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. thailandensis* Phook., Z.L. Luo & K.D. Hyde, asexual morph unknown, saprobes, Asia, see Phookamsak et al. (2015b; taxonomy, phylogeny), cultures and sequences are available.

Astrothelium Eschw. 1824, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, c. 250 species, type: *A. conicum* Eschw., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Nelsen et al. (2014a; phylogeny) Aptroot and Lücking (2016; monograph), Lücking et al. (2016a, 2017a; classification).

Asymmetrispora Thambug. & K.D. Hyde 2015, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. tennesseensis* (Mugambi, A.N. Mill. & Huhndorf) Thambugala & K.D. Hyde , asexual morph unknown, saprobes, cosmopolitan, see Thambugala et al. (2015b; taxonomy), cultures and sequences are available

Asymmetricospora J. Fröhl. & K.D. Hyde 1998, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. calamicola* J. Fröhl. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tian et al. (2015; morphology, phylogeny), cultures and sequences are unavailable.

Athallia Arup, Frödén & Søchting 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 13 species, type: *A. holocarpa* (Hoffm.) Arup, Frödén & Søchting, with ascomata, lichenized (*'Pseudotrebouxia'*), (corticolous, epixylic, terricolous, saxicolous), cosmopolitan, see Arup et al. (2013, DNA), Lücking et al. (2017a, classification), Vondrák et al. (2016, geographical range), sequences are available for voucher JV14428 of the type (*fide* Arup et al. 2013).

Atichia Flot. 1850 (= *Actinomma* Sacc. 1884; = *Hyphodictyon* Millardet 1866; = *Myriophysa* Fr. 1849; = *Seuratia* Pat. 1904 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Ascomycota* families *incertae sedis*, four species, type: *A. mosigii* Flot., hyphomycetous, sexual morph formerly known in *Seuratia* Pat., widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Atkinsonella Diehl 1950, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *A. hypoxylon* (Peck) Diehl, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Atla Savić & Tibell 2008, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, nine species, type: *A. alpina* Savić & Tibell, lichenized, terrestrial, Europe, see Savić and Tibell (2008a; taxonomy), Lumbsch and Huhndorf (2010; outline), Tibell and Tibell (2015; new species, Alaska), Lücking et al. (2017a; classification), Pykälä and Myllys (2016; new species), holotype and ex-type of the type: UPS, Savić 3129, SS193.

Atopospora Petr. 1925, *Venturiaceae*, *Venturiales*, *Dothideomycetes*, two species, type: *A. betulina* (Fr.)

Petr., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; accepted as a genus in *Venturiaceae*), Hyde et al. (2013; accepted as a genus in *Venturiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Atractilina Dearn. & Barthol. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *A. callicarpae* Dearn. & Barthol., hyphomycetous, sexual morph unknown, fungicolous, terrestrial, tropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Atractium Link 1809, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *A. stilbaster* Link, hyphomycetous, sexual morph unknown, saprobes or isolated from drinking water, terrestrial, aquatic, worldwide, see Gräfenhan et al. (2011; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), epitype and ex-epitype: CBS 410.67.

Atractobolus Tode 1790, *Ascomycota* genera *incertae sedis*, one species, type: *A. ubiquitarius* Tode, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Atradidymella M.L. Davey & Currah 2009, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *A. muscivora* M.L. Davey & Currah, asexual morph unknown, saprobes, Canada, see Davey and Currah (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), holotype: UAMH 10909, cultures and sequences are available.

Atrocalyx A. Hashim. & Kaz. Tanaka 2017, *Lophiotremataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. acutisporus* A. Hashim. & Kaz. Tanaka, asexual morph coelomycetous, saprobes, Asia, Europe, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Atrogeniculata J.S. Monteiro, Gusmão & R.F. Castañeda 2014, *Ascomycota* genera *incertae sedis*, one species, type: *A. submersa* J.S. Monteiro, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes of submerged leaves, Brazil, see Monteiro et al. (2014c; taxonomy), Santa Izabel et al. (2015; taxonomy), Wijayawardene et al. 2017; outline), cultures and sequences are unavailable.

Atrokylindriopsis Y.R. Ma & X.G. Zhang 2015, *Chaetothyriales* genera *incertae sedis*, *Eurotiomycetes*, one species, type: *A. setulosa* Y.R. Ma & X.G. Zhang, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Ma et al. (2015; taxonomy, DNA), Wijayawardene et al. (2017; outline), holotype and ex-type strain of type: HSAUP H4560; HSAUPmyr4560, HMAS 245592.

Atronectria Etayo 2008, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *A. magellanica* Etayo, asexual morph unknown, parasymbiont on macrolichens, aquatic, South America, see Etayo and Sancho (2008; morphology, distinction of similar lichenicolous genera), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), need revision, holotype: MAF, Etayo 22938, cultures and sequences are unavailable.

Atropellis Zeller & Goodd. 1930, *Godroniaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *A. pinicola* Zeller & Goodd., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Atrosetaphiale Matsush. 1995, *Ascomycota* genera *incertae sedis*, two species, type: *A. flagelliformis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Atrosynnema J.W. Xia, X.G. Zhang & Z. Li 2016, *Ascomycota* genera *incertae sedis*, one species, type: *A. digitosporum* J.W. Xia, X.G. Zhang & Z. Li, hyphomycetous, sexual morph unknown, saprobic, terrestrial, China, see Xia et al. (2016b; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Atrotorquata Kohlm. & Volkm.-Kohlm. 1993, *Cainiaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *A. lineata* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, Italy, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), only *Atrotorquata spartii* has sequence: MFLU 14–0738, MFLUCC 13–0444, further sequences are necessary for confirm its placement in *Cainiaceae*.

Auerswaldia Sacc. 1883, *Dothideomycetes* genera *incertae sedis*, c. 20 species, type: *A. examinans* (Mont. & Berk.) Sacc., asexual morph coelomycetous, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2012b; phylogeny, treated as a genus in *Botryosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; phylogeny, excluded from *Botryosphaeriaceae*), cultures and sequences are unavailable for type species.

Auerswaldiella Theiss. & Syd. 1914 (= *Dimeriellina* Chardón 1939; = *Stichodothis* Petr. 1927 *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, four species, type: *A. puccinioides* (Speg.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2012b; accepted as a genus in *Botryosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Aulacostroma Syd. & P. Syd. 1914, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, five species, type: *A. palawanense* Syd. & P. Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Aulaxina Fée 1825, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 13 species, type: *A. opegraphina* Fée, with ascomata, lichenized (*Trebouxia*), terrestrial (foliicolous and corticolous), tropical, see Lücking (2008; outline), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a, classification), Sanders and de los Ríos (2016; outline), sequences are available.

Aulographina Arx & E. Müll. 1960, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *A. pinorum* (Desm.) Arx & E. Müll., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as genus in *Asterinaceae*), Hongsanan et al (2014c; taxonomy, transferred to *Teratosphaeriaceae*), Wijayawardene et al. (2014c; outline), holotype: PC 0084689.

Aulographum Lib. 1834, *Aulographaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, c. 30 species, type: *A. hederae* Lib., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Hyde et al (2013; morphology, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures available for type species MFLUCC 13-0001, CPC21373.

Aulospora Speg. 1909, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. epimyces* (Speg.) Speg., asexual morph unknown, saprobes, terrestrial, Argentina, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Aurantiascoma Thambugala & K.D. Hyde 2014, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *A. minimum* (Mugambi, A.N. Mill. & Huhndorf) Thambugala & K.D. Hyde, asexual morph unknown, saprobes, cosmopolitan, see Mugambi and Huhndorf (2009a; taxonomy, as *Misturatosphaeria minima* Mugambi, A.N. Mill. & Huhndorf), Thambugala et al. (2015b; taxonomy), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora* but in here we do not agree with them), cultures and sequences are available.

Aurantiosacculus Dyko & B. Sutton 1979, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *A. eucalypti* (Cooke & Massee) Dyko & B. Sutton, coelomycetous, sexual morph unknown, foliicolous, pathogens, saprobes, three species, Australia, see Crous et al. (2012d; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of the type: Reader No. 24 K.

Aurapex Gryzenh. & M.J. Wingf. 2006, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. penicillata* Gryzenh. & M.J. Wingf., coelomycetous, sexual morph unknown, ?pathogens, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type cultures of type: PREM 57520, CMW 10030 = CBS115740.

Auratiopycnidiella Crous & Summerell 2012, *Auratiopycnidiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. tristaniopsidis* Crous & Summerell, coelomycetous, sexual morph unknown, pathogens, terrestrial, Australia, see Crous et al. (2012d; morphology, phylogeny), Maharachchikumbura et al. (2015b; classification, phylogeny), holotype and ex-type: CBS H-20932, CPC 16371.

Aureobasidium Viala & G. Boyer 1891 (= *Aureobasis* Clem. & Shear 1931; = *Dematoidium* Stautz 1931; = *Pachybasidiella* Bubák & Syd. 1915; = *Polyspora* Laff. 1921 [1920-22]; = *Protocoronis* Clem. & Shear 1931; = *Protocoronospora* G.F. Atk. & Edgerton 1907; = *Pullularia* Berkhout 1923 *fide* Species Fungorum 2017), *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, 36 species, type: *A. vitis* Viala & G. Boyer, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Peterson et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; taxonomy), ex-epitype: CBS 130298.

Auriculora Kalb 1988, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *A. byssomorpha* (Nyl.) Kalb, lichenized, Neotropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification), sequences are unavailable.

Aurifilum Begoude, Gryzenh. & Jol. Roux 2010, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *A. marmelostoma*, asexual morph coelomycetous, pathogens, terrestrial, Cameroon, Taiwan, see Begoude et al. (2010; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), extype: CBS 124928 =CMW28290; ex-paratypes of type: CBS 124929, CBS 124930; holotype: PREM 60256.

Aurophora Rifai 1968, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *A. dochmia* (Berk. & M.A. Curtis) Rifai, asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Aurosphaeria Sun J. Lee, Strobel, Eisenman, Geary, Vargas & S.A. Strobel 2009, *Ascomycota* genera *incertae sedis*, one species, type: *A. flaviradians* Sun J. Lee, Strobel, Eisenman, Geary, Vargas & S.A. Strobel, coelomycetous, sexual morph unknown, saprobes, terrestrial, Bolivia, see Lee et al. (2009c; taxonomy), Wijayawardene et al. (2012, 2017; outline), holotype: MONT 2349, cultures and sequences are unavailable.

Australiaena Matzer, H. Mayrhofer & Elix 1997, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *A. streimannii* Matzer, H. Mayrhofer & Elix, with ascomata, lichenized (green algae), terrestrial (saxicolous), Australia, Papua-New Guinea see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a, classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Austrella P.M. Jørg. 2004, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *A. arachnoidea* P.M. Jørg., with ascomata, lichenized (*Nostoc*), terrestrial (corticolous), Australia, New Zealand, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available for the type species.

Austroafricana Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *A. associata* (Crous & Carnegie) Quaedvl. & Crous, asexual morph unknown, pathogens, terrestrial, Australia, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype: CBS-H 19833, ex-type: CPC 13119.

Austrocenangium Gamundí 1997, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *A. australe* (Speg.) Gamundí, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Austrographa Sparrius, Elix & A.W. Archer 2010, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *A. kurriminensis* Sparrius, Elix & A.W. Archer, lichenized, see Sparrius et al. (2010, 2013; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Austrolecia Hertel 1984, *Catillariaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *A. antarctica* Hertel, lichenized (green algae), terrestrial (saxicolous), Antarctica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Austroparmeliella (P.M. Jørg.) P.M. Jørg. 2014, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *A. arachnoidea* P.M. Jørg., with ascomata, lichenized (*Nostoc*), terrestrial (corticolous), Australia, New Zealand, see Lücking et al. (2017a; classification), sequences are available.

Austroparmelina A. Crespo, Divakar & Elix 2010, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 15 species, type: *A. endoleuca* (Taylor) A. Crespo, Divakar & Elix, with ascomata, lichenized (green algae), terrestrial (corticolous, saxicolous), Australasia, South Africa, see Crespo et al. (2010a, b; taxonomy), Kantvilas and Divakar (2013; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Austropeltum Henssen, Döring & Kantvilas 1992, *Sphaerophoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *A. glareosum* Henssen, Döring & Kantvilas, with ascomata, lichenized (green algae), terrestrial (terricolous), Tasmania and New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification).

Austropezia Spooner 1987, *Arachnopezizaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *A. samuelsii* (Korf) Spooner, sexual morph unknown, saprobes, New Zealand, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Hyaloscyphaceae*), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Austroplaca Søchting, Frödén & Arup 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, ten species, type: *A. ambitiosa* (Darb.) Søchting, Frödén & Arup, lichenized, terrestrial, widespread, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification); sequences are available.

Austropleospora R.G. Shivas & L. Morin 2010, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *A. osteospermi* R.G. Shivas & L. Morin, asexual morph coelomycetous, pathogens, terrestrial, Australia, South Africa, see Morin et al. (2010), Thambugala et al. (2014e; taxonomy), Ariyawansa et al. (2015a; phylogeny), holotype of the type: BRIP 52234, isotype BRIP 51628 (includes ex-isotype culture).

Austroroccella Tehler & Ertz 2013, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *A. gayana* (Mont.) Tehler & Ertz, sexual morph with apothecioid ascomata, asexual morph coelomycetous, lichenized, terrestrial, Chile, see Tehler et al. (2013b; morphology, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Austrostigmidium Pérez-Ortega & Garrido-Benavent 2015, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *A. mastodiae* Pérez-Ortega & Garrido-Benavent, lichenicolous, terrestrial, Antarctica, Tierra del Fuego, asexual morph coelomycetous, see Pérez-Ortega et al. (2015, phylogeny, taxonomy), closely related to the lichenicolous genus *Xanthoriicola* and the rock-inhabiting fungal genus *Friedmanniomyces*, holotype: MA–Lich 18215.

Austrotrema I. Medeiros, Lücking & Lumbsch 2017, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *A. bicinctulum* (Nyl.) I. Medeiros, Lücking & Lumbsch, lichenized, see Lücking et al. (2017a; classification), Medeiros et al. (2017; taxonomy), sequences are available.

Autoicomyces Thaxt. 1908, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 28 species, type: *A. acuminatus* (Thaxt.) Thaxt., asexual morph unknown, parasitic on Hydrophilidae beetles, aquatic, Asia, Europe, North America, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Autophagomyces Thaxt. 1912 (= *Bordea* Maire 1916 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 20 species, type: *A. platensis* Thaxt., asexual morph unknown, parasitic on Anthicidae, Phalacridae, and Staphylinidae beetles, terrestrial, Africa, Asia, North America, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Auxarthron G.F. Orr & Kuehn 1963, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, 17 species, type: *A. californiense* G.F. Orr & Kuehn, asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Crous et al. (2013b; new species, Portugal), Hubka et al. (2013a; new species), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Auxarthronopsis Rahul Sharma, Gräser & S.K. Singh 2011, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, 18 species, type: *A. californiense* G.F. Orr & Kuehn, asexual morph hyphomycetous, saprobes, terrestrial, India, see Sharma et al. (2011; taxonomy), cultures and sequences are available.

Avesicladiella W.P. Wu, B. Sutton & Gange 1997, *Ascomycota* genera *incertae sedis*, two species, type: *A. britannica* Wu, Sutton & Gange, saprobes, hyphomycetous, sexual morph unknown, UK, China, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: IMI 372453, sequence are unavailable.

Avettaea Petr. & Syd. 1927, *Ascomycota* genera *incertae sedis*, three species, type: *A. philippinensis* Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Awasthiella Kr. P. Singh 1980, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *A. indica* Kr. P. Singh, lichenized, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Ayria Fryar & K.D. Hyde 2004, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, two species, type: *A. appendiculata* Fryar & K.D. Hyde, saprobes, aquatic, Costa Rica, USA, Brunei, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2016b; outline), holotype: HKU (M) 15553.

Azbukinia Lar. N. Vassiljeva 1989, *Sordariomycetes* genera *incertae sedis*, one species, type: *A. ferruginea* (Fuckel) Lar.N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Azureothecium Matsush. 1989, *Eurotiomycetidae* genera *incertae sedis*, *Eurotiomycetes*, two species, type: *A. australiense* Matsush., asexual morph unknown, saprobes, from soil, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Babjeviella Kurtzman & M. Suzuki 2010, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *B. inositovora* (Golubev & Blagod.) Kurtzman & M. Suzuki, asexual reproduction by multilateral budding and cells are short-ellipsoid to elongate, saprophytes, known from peat, rotted balsam fir (*Abies balsamea*), insect frass, unidentified tree, Russia, Canada, USA, see Kurtzman and Suzuki (2010; taxonomy), Kurtzman and Robnett (2013b; phylogeny), cultures and sequences are available.

Bachmanniomyces D. Hawksw. 1981, *Ascomycota* genera incertae sedis, type: *B. uncialicola* (Zopf) D. Hawksw. (syn. *Phyllosticta uncialicola* Zopf), three species, coelomycetous, sexual morph unknown, gall-

forming on lichens, Europe, North and South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), lectotype: E, cultures and sequences are unavailable.

Bacidia De Not. 1846 (= *Bacidiomyces* Cif. & Tomas. 1953; = *Byssopsora* A. Massal. 1861; = *Psorella* Müll. Arg. 1894; = *Sporacestra* A. Massal. 1860 [1859-1860]; = *Urophora* Sommerf. ex Arnold 1899 *fide* Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 230 species, type: *B. rosella* (Pers.) De Not., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Bacidina Vězda [nom. cons.] 1991, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, twelve species, type: *B. phacodes* (Körb.) Vězda, lichenized, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Czarnota and Guzow-Krzeminska (2012; DNA), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Bacidiopsora Kalb 1988, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *B. squamulosa* (Nyl.) Kalb (*Lecidea squamulosa* Nyl.), lichenized, corticolous, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Bacillopeltis Bat. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *B. paypayrolae* Bat., coelomycetous, sexual morph unknown, saprobes, on soil, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bactridium Kunze 1817 (= *Damnosporium* Corda 1842; = *Ericianella* Brond. 1828 [1828-1830; = *Podobactridium* Penz. & Sacc. ex Petch 1916 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 15 species, type: *B. flavum* Kunze, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bactrodesmiastrum Hol.-Jech. 1984, *Sordariomycetes* genera *incertae sedis*, two species, type: *B. obscurum* Hol.-Jech., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Bactrodesmiella M.B. Ellis 1959, *Ascomycota* genera *incertae sedis*, two species, type: *B. masonii* (S. Hughes) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bactrodesmium Cooke 1883, *Dothideomycetes* genera *incertae sedis*, more than 48 species, type: *B. abruptum* (Berk. & Broome) Mason & Hughes, sexual morph *Stuartella* spp., saprobes, terrestrial and aquatic, worldwide, see Zhao et al. (2009; outline, diversity), da Cruz and Gusmão (2009; diversity), Koukol and Kolářová (2010; morphology, phylogeny), Kalko (2011; diversity), Seephueak et al. (2011a, 2011b; diversity), Hernández-Restrepo et al. (2013; morphology), Tanaka et al. (2015; phylogeny), sequences are available.

Bactrosphaeria Penz. & Sacc. 1897, *Sordariomycetes* genera *incertae sedis*, one specie, type: *B. asterostoma* Penz. & Sacc, asexual morph unknown, saprobe, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bactrospora A. Massal. 1852 (= *Bactrosporomyces* Cif. & Tomas. 1953; = *Melampydiomyces* Cif. & Tomas. 1953; = *Melampylidium* Stirt. ex Müll. Arg. 1894; = *Scolecactis* Clem. 1909 *fide* Species Fungorum 2017), *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, 35 species, type: *B. dryina* (Ach.) A. Massal., lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Knudsen et al. (2011; new species), Kirk et al. (2013; genus accepted), Sobreira et al. (2015; new species), Lücking et al. (2017a; classification), sequences are unavailable.

Baculifera Marbach & Kalb 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 14 species, type: *B. orosa* Marbach., with ascomata, lichenized (green algae), terrestrial (mostly corticolous and lignicolous), tropical, see Elix and Kantvilas (2014; new records), Elix and Mayrhofer (2016; outline), Lücking et al. (2017a; classification), Prieto and Wedin (2016; DNA, genus accepted), sequences are available but lacking for the type.

Baculospora Zukal 1887, *Ascomycota* genera *incertae sedis*, one species, type: *B. pellucida* Zukal, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bacusphaeria Norlailatul, Alias & Suetrong 2017, *Tirisporellaceae*, *Tirisporellales*, *Sordariomycetes*, one species, type: *B. nypae* Norlailatul, Alias & Suetrong, asexual morph unknown, saprobes, marine, Malaysia, see Abdel-Wahab et al. (2017; phylogeny), holotype and ex-type: MFLU 13-0617, BCC51275, sequences are available.

Badarisama Kunwar, J.B. Manandhar & J.B. Sinclair 1986, *Ascomycota* genera *incertae sedis*, one species, type: *B. sojae* Kunwar, J.B. Manandhar & J.B. Sinclair, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline),

Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Badimia Vězda [nom. cons.] 1986 (= *Pseudogyalecta* Vězda 1975 fide Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 18 species, type: *B. dimidiata* (Bab. ex Leight.) Vězda, lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA), Lücking et al. (2017a; classification), sequences are available.

Badimiella Malcolm & Vězda 1994, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *B. serusiauxii* Malcolm & Vězda, lichenized, south temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Baeomyces Pers. 1794 (= *Baeomycetomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Cladoniopsis* Zahlbr. 1941; = *Cyanobaeis* Clem. 1909; = *Ludovicia* Trevis. 1857; = *Sphyridiomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Sphyridium* Flot. 1843 *fide* Species Fungorum 2017), *Baeomycetaceae*, *Baeomycetales*, *Lecanoromycetes*, nine species, type: *B. byssoides* (L.) P. Gaertn., G. Mey. & Scherb., lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA), Lücking et al. (2017a; classification), sequences are available.

Baflavia Lücking 2008, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *B. flavescens* (Lücking) Lücking, lichenized, see Lücking et al. (2017a; classification), sequences are unavailable.

Bagadiella Cheew. & Crous 2009, *Clypeophysalosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *B. lunata* Cheew. & Crous, hyphomycetous, sexual morph unknown, saprobes, ?pathogens, terrestrial, Australasia, see Cheewangkoon et al. (2009; taxonomy, phylogeny), Crous et al. (2011a; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Giraldo et al. (2017; phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), holotype and ex-type: CBS H-20281, CBS 124762.

Bagcheea E. Müll. & R. Menon 1954, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *B. albomaculans* (Fukui) Hino & Katumoto asexual morph unknown, mild pathogens, terrestrial, temperate and tropical, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Baggea Auersw. 1866, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *B. pachyascus* Auersw., asexual morph unknown, saprobes, terrestrial, Germany, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), neotype: K herbarium.

Bagliettoa A. Massal. 1853, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 20 species, type: *B. limborioides* A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Bagnisiella Speg. 1880 (= *Robertomyces* Starbäck 1880 *fide* Species Fungorum 2017), *Aplosporellaceae*, *Botryosphaeriales*, *Dothideomycetes*, c. 20 species, type: *B. australis* Speg., asexual morph unknown, saprobes, South America, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; transferred to *Aplosporellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Bagnisimitrula S. Imai 1942, *Leotiomycetes* genera *incertae sedis*, one species, type: *B. saccardoa* (Bagnis) S. Imai, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bahianora Kalb 1984, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *B. poeltii* Kalb, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Bahuchashaka Subram. 1978, *Ascomycota* genera *incertae sedis*, one species, type: *B. graminis* (Matsush.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bahukalasa Subram. & Chandrash. 1979, *Ascomycota* genera *incertae sedis*, one species, type: *B. samala* Subram. & Chandrash., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bahusakala Subram. 1958, *Dothideomycetes* genera *incertae sedis*, four species, type: *B. olivaceonigra* (Berk. & Broome) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, Caribbean, North America, see Kang et al. (2010; DNA), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), cultures and sequences are available.

Bahusandhika Subram. 1956, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, four species, type: *B. indica* (Subram.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Pratibha et al. (2014; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Bahusutrabeeja Subram. & Bhat 1977, *Botryosphaeriales* genera *incertae sedis*, *Dothideomycetes*, six species, type: *B. dwaya* Subram. & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, sometimes aquatic, cosmopolitan see Shenoy et al. (2010, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Li et al. (2013; new species, key), Gao et al. (2015a; new record for *B. angularis* from China), sequences are available.

Baipadisphaeria Pinruan 2011, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *B. spathulospora* Pinruan, asexual morph unknown, saprobes, aquatic, on decaying leaves of peat swamp palm *Licuala longicalycata*, Thailand, see Pinruan et al. (2010; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and extype culture of type: BBH Pinruan Wah32A, BCC16119.

Bakerophoma Died. 1916, *Ascomycota* genera *incertae sedis*, three species, type: *B. sacchari* Died., lichenicolous, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Balaniopsis P.M. Kirk 1985, *Ascomycota* genera *incertae sedis*, four species, type: *B. africana* (Kiffer) P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, on soil, terrestrial, Africa, Australasia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Balanium Wallr. 1833, *Ascomycota* genera *incertae sedis*, one species, type: *B. stygium* Wallr., hyphomycetous, sexual morph unknown, saprobes, on soil, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Balansia Speg. 1885 (= *Dothichloë* G.F. Atk. 1894; = *Ephelis* Fr. 1849; = *Ophiodothis* Sacc. 1883 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 27 species, type: *B. claviceps* Speg., asexual morph unknown, saprobes, terrestrial, subtropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Balazucia R.K. Benj. 1968, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *B. bilateralis* R.K. Benj., asexual morph unknown, parasitic on Staphylinoidea beetles, terrestrial, Central America and Japan, see Rossi and Weir (2008; treated as a synonym of *Cucujomyces*), Lumbsch and Huhndorf (2010; outline, misspelled as *Balazusia*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Balladyna Racib. 1900 (= *Wageria* Stevens & Dalbey. 1918), *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, c. 17 species, type: *B. gardeniae* Racib., asexual morph unknown, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Balladynocallia Bat. 1965, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *B. glabra* (Hansf.) Bat., asexual morph unknown, saprophytes on leaves, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014; outline), cultures and sequences are unavailable.

Balladynopsis Theiss. & Syd., 1917 (= *Balladynastrum* Hansf. 1941 [1940-41]; = *Xenostigmella* Petr. 1950 *fide* Species Fungorum 2017), *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, 17 species, type: *B. philippinensis* Syd. & P. Syd., asexual morph hyphomycetous, mostly saprobes on leave, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences unavailable.

Balsamia Vittad. 1831 (= *Pseudobalsamia* E. Fisch. 1907 *fide* Species Fungorum 2017), *Helvellaceae*, *Pezizales*, *Pezizomycetes*, six species, type: *B. vulgaris* Vittad., asexual morph unknown, saprobes, ?from soil, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014d; DNA, phylogeny), sequences are available.

Bambusaria Jaklitsch, D.Q. Dai, K.D. Hyde & Voglmayr 2015, *Valsariaceae*, *Valsariales*, *Dothideomycetes*, one species, type: *B. bambusae* (J.N. Kapoor & H.S. Gill) Jaklitsch, D.Q. Dai, K.D. Hyde & Voglmayr, asexual morph coelomycetous, saprobes, terrestrial, India and Thailand, see Jaklitsch et al. (2015; phylogeny, morphology, sexual and asexual morphs), Dai et al. (2017; description), reference specimen culture of type: MFLUCC 12–0851 = CBS 139763 = MUCL 55880.

Bambusicola D.Q. Dai & K.D. Hyde 2012, *Bambusicolaceae*, *Pleosporales*, *Dothideomycetes*, nine species, type: *B. massarinia* D.Q. Dai & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Dai et al. (2012, 2015b, 2017; phylogeny,

morphology, sexual morph, key), Wijayawardene et al. (2014c; outline), Thambugala et al. 2017b, new species, phylogeny), ex-type: MFLUCC 11–0389 =CBS 139985.

Bambusicularia Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *B. brunnea* Klaubauf, Lebrun & Crous, hyphomycetous, sexual morph unknown, pathogens, terrestrial, Japan, see Klaubauf et al. (2014; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: CBS H-21839, ex-type strain of type: CBS 133599.

Bambusistroma D.Q. Dai & K.D. Hyde 2015, *Massarinaceae*, *Massarineae*, *Pleosporales*, *Dothideomycetes*, one species, type: *B. didymosporum* D.Q. Dai & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Adamčík et al. (2015; phylogeny, morphology, sexual morph), holotype and ex-type strain of type: MFLU 15–0057, MFLUCC 13–0862.

Banhegyia Zeller & Tóth 1960, *Dothideomycetes* genera *incertae sedis*, two species, type: *B. setispora* L. Zeller & Tóth, asexual morph unknown, saprobes, terrestrial, Europe, see Sanderson et al. (2009; excluded the genus *Banhegyia* due to differing morphology and phylogeny and synonymized *Banhegiya* with *Mycoelaspilea*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; did not accept as a genus in *Patellariaceae* but included in key due to historical reasons), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; did not accept as a genus in *Patellariaceae*), holotype: BP 2835.

Banksiamyces G.W. Beaton 1982, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *B. macrocarpus* G.W. Beaton, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence (ITS) is available for an unidentified species.

Banksiophoma Crous 2017, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *B. australiensis* Crous, coelomycetous, sexual morph unknown, saprobes, Australia, see Crous et al. (2017; taxonomy), holotype: CBS H-23121, cultures and sequences are available.

Bapalmuia Sérus. 1993, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 23 species, type: *B. palmularis* (Müll. Arg.) Sérus., lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), van den Broeck et al. (2014; new species, Congo), Lücking et al. (2017a; classification), sequences are available.

Barbarosporina Ķirulis 1942, *Ascomycota* genera *incertae sedis*, one species, type: *B. rhytismatis* Ķirulis, coelomycetous, sexual morph unknown, former USSR see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Barbatosphaeria Réblová 2008 (= *Tectonidula* Réblová 2009 *fide* Réblová et al. 2015c), *Sordariomycetes* genera *incertae sedis*, eight species, type: *B. barbirostris* (Dufour) Réblová, asexual morph unknown, saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Réblová et al. (2015c; new species), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures available for the type: CBS 121149.

Barnettella D. Rao & P. Rag. Rao 1964 (= *Vinculum* R.Y. Roy, R.S. Dwivedi & P.K. Khanna 1965 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *B. speciosa* D. Rao & P. Rag. Rao, coelomycetous, sexual morph unknown, saprobes, on soil, terrestrial, India, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), cultures and sequences are unavailable.

Barnettozyma Kurtzman, Robnett & Bas.-Powers 2008, *Phaffomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *B. populi* (Phaff, Y. Yamada, Tredick & M. Miranda) Kurtzman, Robnett & Basehoar-Powers, asexual reproduction by budding, saprophytic, on soil, water, tree fluxes, insect frass in trees, animal dung, one clinical isolate, worldwide, see Kurtzman et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Barrenia E. Walsh & N. Zhang 2015, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *B. panicia* E. Walsh & N. Zhang, hyphomycetous, sexual morph unknown, root endophytes, terrestrial, USA, see Walsh et al. (2015; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: RUTPP WSF1R37.

Barretomyces Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, hyphomycetous, one species, type: *B. calatheae* (Soares, Rocha & Barreto) Klaubauf, Lebrun & Crous, sexual morph unknown, pathogens, terrestrial, Brazil, see Klaubauf et al. (2014; morphology, phylogeny), Maharachchikumbura et al. (2015b; outline), holotype of the type: VIC 30699, ex-type strain of type: CBMAI 1060.

Barria Z.Q. Yuan 1994, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *B. piceae* Z.Q. Yuan, asexual morph unknown, pathogens, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014e; transferred the genus *Barria* from *Phaeosphaeriaceae* to *Didymosphaeriaceae*), Phookamsak et al. (2014c; accepted as a genus in *Didymosphaeriaceae*), Wijayawardene et al. (2014c; outline), sequences are unavailable, isotype of type species NY 00164027.

Barrina A.W. Ramaley 1997, *Coniochaetaceae*, *Coniochaetales*, *Sordariomycetes*, one species (type): *B. polyspora* A.W. Ramaley, asexual morph *phialophora*-like, saprobes, USA see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b; outline), sequences are available.

Barriopsis A.J.L. Phillips, A. Alves & Crous, Persoonia 21: 39. 2008, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, four species, type: *P. fusca* N.E. Stevens [≡ *Barriopsis fusca* nom. illeg.; ≡ *Barriopsis stevensiana* A.J.L. Phillips & Pennycook], coelomycetous, saprobes, weak pathogens, terrestrial, distribution not known, see Abdollahzadeh et al. (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Liu et al. (2012b; phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; phylogeny), Doilom et al. (2014; new species), Wijayawardene et al. (2014c, 2016b; outline, taxonomy), Konta et al. (2016c; new species), Tibpromma et al. (2017b; new species, phylogeny), ex-type: CBS 174.26.

Barriopsis stevensiana A.J.L. Phillips & Pennycook, *nom. nov*. MycoBank MB819573

≡ *Barriopsis fusca* (N.E. Stevens) A.J.L. Phillips, A. Alves & Crous, Persoonia 21: 39. 2008, nom illeg. [ICN(Melbourne) Art. 52.1], replaced synonym.

≡ *Phaeobotryosphaeria fusca* (N.E. Stevens) Petr., Sydowia 6: 317. 1952.

≡ *Physalospora fusca* N.E. Stevens, Mycologia 18: 210. 1926.

Etymology: Named in honour of N.E. Stevens, the American mycologist and plant pathologist.

See Phillips et al. (2008) for illustrations, description and diagnosis.

Holotype: Cuba, Herradura, on twigs of *Citrus* sp., 15 Jan. 1925, *N.E. Stevens*, holotype BPI 599052, culture ex-type CBS 174.26.

Notes: Phillips et al. (2008) introduced *Barriopsis fusca* as a new combination based on *Physalospora fusca*, but inadvertently rendered it illegitimate (superfluous) by listing *Botryosphaeria disrupta* (Berk. & M.A. Curtis) Arx & E. Müll., as a synonym. However, this synonymy is erroneous; the dark brown, aseptate ascospores of *B. stevensiana* are distinct from the light brown ("hellbraun") ascospores of *B. disrupta* sensu von Arx and Müller (1954), and clearly distinct from the hyaline ascospores of *Sphaeria disrupta*, the basionym of *B. disrupta* (Berkeley 1876).

Barrmaelia Rappaz 1995, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, three species, type: *B. rhamnicola* Rappaz, six species, asexual morph libertella-like, terrestrial, saprobes, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; placed in *Xylariales* genera *incertae sedis*), cultures and sequences are available.

Barssia Gilkey 1925 (= *Phymatomyces* Kobayasi 1937 *fide* Species Fungorum 2017), *Helvellaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *B. oregonensis* Gilkey, asexual morph unknown, saprobes, ?from soil, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014d; new species), Hongsanan et al. (2017a; evolution), sequences are available for the type species.

Bartalinia Tassi 1900 (= *Hyalotia* Guba 1961; = *Pestalozzina* P. Karst. & Roum. 1890 *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, 17 species, type: *B. robillardoides* Tassi, saprobes, associated with leaf spots, cosmopolitan, see Marincowitz et al. (2010; new species), Wijayawardene et al. (2012, 2016b, 2017; phylogeny, taxonomy, outline), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), Senanayake et al. (2015; phylogeny, morphology), cultures and sequences are available.

Bartlettiella D.J. Galloway & P.M. Jørg. 1990, *Lecanoromycetes* genus *incertae sedis* one species, type: *B. fragilis* D.J. Galloway & P.M. Jørg., with ascomata, lichenized (green algae), lichenized, terrestrial (saxicolous), New Zealand, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a, classification), cultures and sequences are unavailable.

Barubria Vezda 1986, *Pilocarpacae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *B. fuscorubra* (Vezda) Vezda, with ascomata, lichenized (green algae), terrestrial (foliicolous), Neotropics and tropical Africa, rare see Lücking (2008; outline), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Farkas (2015; nomenclature), Lücking et al. (2017a, classification), cultures and sequences are unavailable.

Basauxia Subram. 1995 (= *Basauxia* Subram. 1992 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *B. pulchra* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: MUBL 3126, cultures and sequences are unavailable.

Basavamyces Hosag. 2005, *Meliolaceae*, *Meliolales*, *Sordariomycetes*, two species, type: *B. litseae* Hosag., C.K. Biju & T.K. Abraham, asexual morph unknown, obligate parasites, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Hosagoudar and Archana (2009; key), holotype (HCIO 43453), cultures and sequences are unavailable.

Basidiobotrys Höhn. 1909, *Sordariomycetes* genera *incertae sedis*, one species, type: *B. clautriavii* (Pat.) Höhn., hyphomycetous, sexual morph unknown, terrestrial, saprobes, see Wendt et al. (2017; resurrected the genus), cultures and sequences are available.

Basifimbria Subram. & Lodha 1968, *Ascomycota* genera *incertae sedis*, three species, type: *B. aurea* Subram. & Lodha, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology, accepted as genus in *Pyronemataceae*), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Batcheloromyces Marasas, P.S. van Wyk & Knox-Dav. 1975, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *B. proteae* Marasas, P.S. van Wyk & Knox-Dav., hyphomycetous, sexual morph unknown, pathogens, saprobes, terrestrial, Australia, Thailand, see Crous et al. (2009e; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017, phylogeny, outline), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2014; phylogeny), cultures available for type: CBS 110696.

Bathelium Ach. 1803, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, 16 species, type: *B. mastoideum* Afzel. ex Ach., lichenized, see Nelsen et al. (2014a; phylogeny), Aptroot and Lücking (2016; monograph), Lücking et al. (2017a; phylogeny; classification), sequences are available.

Bathyascus Kohlm. 1977, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, five species, type: *B. vermisporus* Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: J.K. 1947 =00966736 NYBG, cultures and sequences are unavailable.

Batistia Cif. 1958 (= *Acrostroma* Seifert 1987 *fide* Rossman et al. 2016a), *Batistiaceae*, *Ascomycota* families *incertae sedis*, one species, type: *B. annulipes* (Mont.) Cif., asexual morph formerly known in *Acrostroma*, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Batistina Peres 1961, *Ascomycota* genera *incertae sedis*, one species, type: *B. splendida* Peres, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Batistinula Arx 1960, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, one species, type: *B. gallesiae* Arx, asexual morph triposporium-like, epiphytes, biotrophic, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Hongsanan et al. (2014c; taxonomy, keys), Wijayawardene et al. (2014c; outline), Guatimosim et al. (2015; phylogeny, DNA), holotype: URM 19988, cultures and sequences are unavailable.

Batistospora J.L. Bezerra & M.P. Herrera 1964, *Ascomycota* genera *incertae sedis*, one species, type: *B. septentrionalis* J.L. Bezerra & M.P. Herrera, asexual morph unknown, saprobes, Neotropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Battarrina (Sacc.) Clem. & Shear 1931 (= *Hypocrea* subgen. *Battarrina* Sacc. 1883 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *B. inclusa* (Berk. & Broome) Clem. & Shear, asexual morph unknown, parasitic (fungicolous), terrestrial, UK, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: K.

Baudoinia J.A. Scott & Unter. 2007, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *B. compniacensis* (Richon) J.A. Scott & Unter., hyphomycetous, sexual morph unknown, saprobes, terrestrial and aquatic, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Scott et al. (2016; new species, phylogeny), epitype and ex-epitype: DAOM 238773, UAMH 10808.

Beauveria Vuill. 1912, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *B. bassiana* (Bals.-Criv.) Vuill., asexual morph unknown, saprobes, terrestrial, Central and South America, see Lumbsch and Huhndorf (2010; outline), Rehner et al. (2011; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Robène-Soustrade et al. (2015; new species), Imoulan et al. (2016; new species, entomopathogens), cultures and sequences are available.

Beauveriphora Matsush. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *B. sporotricis* Matsush., hyphomycetous, sexual morph unknown, saprobes, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017, outline), cultures and sequences are unavailable.

Beccopycnidium F. Stevens 1930, *Ascomycota* genera *incertae sedis*, one species, type: *B. palmicola* F. Stevens, coelomycetous, sexual morph unknown, see Wijayawardene et al. (2012, 2017, outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Beejadwaya Subram. 1977, *Ascomycota* genera *incertae sedis*, one species, type: *B. bispora* (Matsu.) Subram., hyphomycetous, sexual morph unknown, saprobe, terrestrial, Japan, see Seifert et al. (2011; morphology),

Wijayawardene et al. (2012, 2017, outline), cultures and sequences are unavailable, holotype: Matsushima herb. 4861.

Beelia F. Stevens & R.W. Ryan 1925, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *B. suttoniae* F. Stevens & R.W. Ryan, asexual morph unknown, saprobes, Hawaii, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Elsinoaceae*), Kirk et al. (2013; genus accepted), Jayawardena et al. (2014; transferred to *Chaetothyriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Belemnospora P.M. Kirk 1981, *Ascomycota* genera *incertae sedis*, seven species, type: *B. epiphylla* P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, Asia, Australasia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Belizeana Kohlm. & Volkm.-Kohlm. 1987, *Dothideomycetes* genera *incertae sedis*, one species, type: *B. tuberculata* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, Belize, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Elsinoaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c: outline), Jones et al. (2015; outline, accepted as a genus in *Dothideales* genera *incertae sedis*), cultures and sequences are unavailable.

Bellemerea Hafellner & Cl. Roux 1984, *Lecanoromycetes* genus *incertae sedis*, nine species, type: *B. alpina* (Sommerf.) Clauzade & Cl. Roux, with ascomata, lichenized (green algae), terrestrial (saxicolous), Eurasia, North America, Australia, New Zealand and Antarctica, montane and boreal, arctic-alpine/Antarctic regions, see Ekman et al. (2008, DNA), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available for the type.

Bellemerella Nav.-Ros. & Cl. Roux 1997, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, four species, type: *B. trapeliae* Nav.-Ros. & Cl. Roux, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bellojisia Réblová 2008, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *B. rhynchostoma* (Höhn.) Réblová, asexual morph unknown, saprobes, terrestrial, Austria, see Réblová (2008; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), culture of the type: CBS 118484.

Bellulicauda B. Sutton 1967, *Ascomycota* genera *incertae sedis*, two species, type: *B. dialii* (Syd.) B. Sutton, coelomycetous, sexual morph unknown, saprobes, Italy, Sierra Leone, Zambia, see Wijayawardene et al. (2012, 2016b, 2017; taxonomy, new species, outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of the type: IMI 21609.

Belonioscyphella Höhn. 1918, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *B. hypnorum* (Syd. & P. Syd.) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Huhtinen et al. (2010; new records), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequence are available.

Beltramono Rashmi Dubey, A.K. Pandey bis & Manohar. 2011, *Ascomycota* genera *incertae sedis*, one species, type: *B. costi* Dubey, Pandey & Manohar., hyphomycetous, sexual morph unknown, pathogens, terrestrial, India, see Dubey et al. (2011; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Beltrania Penz. 1882, *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, 14 species, type: *B. rhombica* Penz., saprobes, worldwide, see Kirk et al. (2013; genus accepted), Crous et al. (2015e; emended the family), Maharachchikumbura et al. (2015b, 2016b; outline), Rajeshkumar et al (2016; taxonomy, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Beltraniella Subram. 1952 (= *Ellisiopsis* Bat. 1956 *fide* Species Fungorum 2017), *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, 21 species, type: *B. odinae* Subram., saprobes, worldwide, see Shirouzu et al. (2010; new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2014c, 2016a; new species, New South Wales), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; new species, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Beltraniomyces Manohar., D.K. Agarwal & Rao 2003, *Ascomycota* genera *incertae sedis*, one species, type: *B. lignicola* Manohar., D.K. Agarwal & Rao, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Beltraniopsis Bat. & J.L. Bezerra 1960, *Beltraniaceae*, *Xylariales*, *Sordariomycetes*, nine species, type: *B. odinae* Subram., saprobes, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2014c; new species, New South Wales), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Benguetia Syd. & P. Syd. 1917, *Helotiales* genera *incertae sedis*, one species, type: *B. omphalodes* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Beniowskia Racib. 1900 (= *Clathrotrichum* Pat. 1921 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, four species, type: *B. graminis* Racib., hyphomycetous, sexual morph unknown, pantropical, saprobes, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Benjaminiomyces I.I. Tav. 2000 (= *Benjaminella* I.I. Tav. 1981 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *B. melanophthalmae* (Thaxt.) I.I. Tav., asexual morph unknown, parasitic on Cryptophagidae, Latridiidae, Monotomidae, and Phalacridae beetles, terrestrial, North and South America, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Benjpalia Subram. & Bhat 1989, *Ascomycota* genera *incertae sedis*, one species, type: *B. sundara* Subram. & Bhat, hyphomycetous, sexual morph unknown, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Berkelella (Sacc.) Sacc. 1891 (= *Byssostilbe* Petch 1912; = *Hypomyces* subgen. *Berkelella* Sacc. 1883 *fide* Species Fungorum 2017)), *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *B. caledonica* (Pat.) Sacc., asexual morph unknown, on Myxomycetes, worldwide, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Berkleasmium Zobel 1854, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, 36 species, type: *B. concinnum* (Berk.) S. Hughes, sexual morph unknown, saprobes, terrestrial and aquatic, see McKenzie (2008; new species), Zhang et al. (2009a; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Whitton et al. (2012a; key to 34 *Berkleasmium* species), Hüseyın et al. (2014; new species), Qu et al. (2014; new species), Tibpromma et al. (2017b; new species), four species have sequences.

Bertia De Not. 1844 (= *Sphaeria* a *Bertiae* (De Not.) Fr. 1849 *fide* Species Fungorum 2017), *Bertiaceae*, *Coronophorales*, *Sordariomycetes*, 30 species, type: *B. moriformis*., worldwide, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Bertiella (Sacc.) Sacc. & P. Syd. 1899, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *B. polyspora* Kirschst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013, 2016; accepted as a genus in *Melanommataceae*, new species), Wijayawardene et al. (2014c; outline), Tian et al. (2015; accepted as a genus in *Melanommataceae*), Almeida et al. (2017; new species), cultures and sequences are available.

Bettsia Skou 1972, *Ascosphaeraceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *B. alvei* (Betts) Skou, asexual morph hyphomycetous, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pitt et al. (2013; new species), sequences and culture available.

Beverwykella Tubaki., 1975, *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *B. pulmonaria* (Beverw.) Tubaki, sexual morph unknown, aquatic, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c; outline, accepted as a genus in *Melanommataceae*), Hyde et al. (2013; accepted as a genus in *Melanommataceae*), Kirk et al. (2013; genus accepted), Tian et al. (2015; phylogeny, transferred to *Pleomassariaceae*), Wijayawardene et al. (2017; outline), cultures and sequences are available for authentic strains CBS 283.53, MFUCC 15–0183, reference specimen MFLU 15–1398.

Bezerromyces J.D.P. Bezerra, C.M. Souza-Motta & Crous 2016, *Bezerromycetaceae*, *Tubeufiales*, two species, type: *B. brasiliensis* J.D.P. Bezerra, C.M. Souza-Motta & Crous, Bezerra et al. (2017a; taxonomy, phylogeny), Liu et al. (2017; treated as *Tubeufiles*), cultures and sequences are available.

Bhadradriella Nagaraju, Kunwar & Manohar. 2011, *Ascomycota* genera *incertae sedis*, one species, type: *B. hyalina* Nagaraju, Kunwar & Manohar., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Nagaraju et al. (2011b; taxonomy), Wijayawardene et al. (2017; outline), holotype: HCIO 50143, cultures and sequences are unavailable.

Bhadradriomyces Sureshk., Manohar. & Kunwar 2009, *Ascomycota* genera *incertae sedis*, one species, type: *B. elegans* Sureshk., Manohar. & Kunwar, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Suresh Kumar et al. (2009; taxonomy), Wijayawardene et al. (2017; outline), holotype: HCIO 43002, cultures and sequences are unavailable.

Bharatheeya D'Souza & Bhat 2002, *Ascomycota* genera *incertae sedis*, one species, type: *B. goanensis* (Bhat & W.B. Kendr.) D'Souza & Bhat, hyphomycetous, sexual

morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: DAOM 214612, cultures and sequences are unavailable.

Bhatia W.A. Baker & Morgan-Jones 2009, *Ascomycota* genera *incertae sedis*, one species, type: *B. malabarica* (Subram. & Bhat) W.A. Baker & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Biappendiculispora Thambug., Kaz. Tanaka & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *B. japonica* Thambug., Wanas., Kaz. Tanaka & K.D. Hyde, asexual morph unknown, saprobes on *Poaceae* spp., terrestrial, river bank, Japan, see Thambugala et al. (2015b; taxonomy, phylogeny), holotype of type: HHUF 27313, ex-type living culture of type: MAFF 239452.

Biatora Fr. 1817, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 42 species, type: *B. vernalis* (L.) Fr., usually with ascomata and often pycnidia, some species sorediate, lichenized (green algae), terrestrial (various substrata), probably cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Printzen (2014; DNA), Rodriguez Flakus and Printzen (2014; DNA), sequences are available.

Biatorella De Not. 1846, *Biatorellaceae*, *Lecanorales*, *Lecanoromycetes*, 30 species, type: *B. rousselii* (Durieu & Mont.) De Not., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Biatoridium J. Lahm ex Körb. 1860 (= *Chiliospora* A. Massal. 1860 [1859-1860] *fide* Species Fungorum 2017), *Lichinomycestes* genera *incertae sedis*, two species, type: *B. monasteriense* J. Lahm ex Körb., with ascomata only, lichenized (green algae), terrestrial (corticolous), Northern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Biatriospora K.D. Hyde & Borse 1986, *Biatriosporaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *B. marina* K.D. Hyde & Borse, asexual morph coelomycetous, on mangroves, human mycetoma, Seychelles, Venezuela, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; introduced *Biatriosporaceae*), Kirk et al. (2013; genus accepted), Ahmed et al. (2014a; new species, asexual morph), Wijayawardene et al. (2014c; outline), Tibpromma et al. (2017b; placement), sequences and culture are suspect.

Bibanasiella R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *B. ramispora* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: INIFAT C91/137, cultures and sequences are unavailable, compare with *Catenosynnema* and *Speiropsis*.

Biciliopsis Diederich 1997, *Dothideomycetes* genera *incertae sedis*, one species, type: *B. leptogiicola* Diederich, asexual morph unknown, lichenicolous, non-lichenized, terrestrial, Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Biciliospora Petr. 1952, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *B. velutina* Petr., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Nitschkia*), Mugambi and Huhndorf (2010; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Biciliosporina Subram. & Sekar 1993, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *B. karwarensis* Subram. & Sekar, asexual unknown, saprobe, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: herb. FSI [sic] 3189; isotype IMI 32468, cultures and sequences are unavailable.

Bicoloromyces Heuchert, U. Braun & D. Hawksw. 2015, *Ascomycota* genera *incertae sedis*, one species, type: *B. kyffinensis* Heuchert, U. Braun & D. Hawksw., sexual morph unknown, on sterile lichen on rock, Antarctica, see Heuchert et al. (2015; taxonomy), holotype: MAF 19121, cultures and sequences are unavailable.

Biconiosporella Schaumann 1972, *Sordariomycetes* genera *incertae sedis*, one species, type: *B. corniculata* Schaumann, asexual morph unknown, saprobes, marine, Germany, see Jones et al. (2009b, 2015; classification), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Bicornispora Checa, Barrasa, M.N. Blanco & A.T. Martínez 1996, *Rutstroemiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *B. exophiala* Checa, Barrasa, M.N. Blanco & A.T. Martínez, saprobes, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Coryneliaceae*), Kirk et al. (2013; genus accepted), Galán et al. (2015; phylogeny, new species), cultures and sequences are available but lacking for the type.

Bicrouania Kohlm. & Volkm.-Kohlm. 1990, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one

species, type: *B. maritima* (P. Crouan & H. Crouan) Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine aquatic, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tian et al. (2015; morphology, phylogeny), cultures and sequences are unavailable.

Bifidocarpus Cano, Guarro & R.F. Castañeda 1994, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *B. cubensis* Cano, Guarro & R.F. Castañeda, saprobes, terrestrial, Cuba, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype: IMI 356298, cultures and sequences are unavailable, compare with *Renispora* and *Onygena*.

Biflagellospora Matsush. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *B. japonica* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Biflagellosporella Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *B. amazonensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Biflua Jørgen Koch & E.B.G. Jones 1989, *Ascomycota* genera *incertae sedis*, one species, type: *B. physasca* Jørg. Koch & Jones, asexual morph unknown, on wood associated with sand, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), cultures and sequences are unavailable.

Bifrontia Norman 1872, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, three species, type: *B. compactior* Norman, saprobes on decaying wood, Europe, see Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; taxonomy), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Bifusella Höhn. 1917, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, eleven species, type: *B. linearis* (Peck) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016b; new combination), cultures and sequences are available (unpublished).

Bifusepta Darker 1963, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *B. tehonii* Darker, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bilimbia De Not. 1846, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *B. hexamera* De Not., lichenized, see Ekman et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Printzen (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Bimeris Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *B. aperta* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Ecuador, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bimuria D. Hawksw., Chea & Sheridan 1979, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, type: *B. novae-zelandiae* D. Hawksw., Chea & Sheridan, one species, asexual morph unknown, isolated from soil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014e; taxonomy), Wijayawardene et al. (2014c; outline), holotype: K(M)-IMI 229814, cultures and sequences are available.

Bioconiosporium Bat. & J.L. Bezerra 1964, *Ascomycota* genera *incertae sedis*, two species, type: *B. baccharidis* Bat. & J.L. Bezerra, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Biophomopsis Petr. 1931, *Ascomycota* genera *incertae sedis*, three species, type: *B. brenesii* Petr., coelomycetous, sexual morph unknown, West Indies, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Bioscypha Syd. 1927, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *B. cyatheae* Syd., asexual morph hyphomycetous, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequence are unavailable.

Biostictis Petr. 1950, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *B. rubiacearum* (Pat.) Petr., with ascomata only, terrestrial (parasitic on leaves), tropical America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Bipolaris Shoemaker 1959, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, 121 species, type: *B. maydis* (Y. Nisik. & C. Miyake) Shoemaker, sexual morph *Cochliobolus*, plant and animal pathogen, saprobes, terrestrial, worldwide, see Aggarwal et al.

(2008, 2009, 2010, 2011a, b; intraspecific variations, DNA fingerprinting, pathogen histopathology), Antoniazzi et al. (2008; xanthan and allicin as elicitors), Chand et al. (2008, 2014; cell biology, disease resistance screening), de Moura Nascimento and Van Der Sand (2008; restriction analysis), Durkin et al. (2008; phaeohyphomycotic keratitis), Dyer et al. (2008; bronchopulmonary mycosis), Felle et al. (2008; host pathogen interaction), Geng et al. (2008; *Echinochloa* control), Ghazvini and Tekauz (2008; Host-pathogen interaction), Janni et al. (2008; resistance in wheat), Jiang and Zhang (2008; new species), Kihara et al. (2008, 2009; BMR1 gene characterization), Kobayashi et al. (2008; Disseminated infection), Motlagh and Kaviani (2008; Iran), Pandey et al. (2008; clonal variability), Persson et al. (2008, 2009; mutant host resistance), Shabana et al. (2008; pathogen control), Asad et al. (2009; Pakistan), Bashir et al. (2009; keratomycosis, endophthalmitis), El Mhadri et al. (2009; *Citrullus lanatus* host), Iftikhar et al. (2009a, b; synthetic host screening), Kamal and Mia (2009; DNA fingerprinting), Kumar et al. (2009; host resistance), Naumann et al. (2009; host enzyme modification), Poloni et al. (2009a, b; morphology, physiology, virulence, vegetative incompatibility), Zhang and Li (2009; new species), Bashyal et al. (2010, 2011; conidiogenesis study, host resistance components), Carissimi et al. (2010; *Bacillus* sp. E164 activity), Dong et al. (2010; TaPIEP1 study), Gomathinayagam et al. (2010; *Trichoderma* effect), Han et al. (2010b; cytology), Kleczewski and Flory (2010; *Microstegium vimineum* host), Knight et al. (2010; genetic variation), Kumar et al. (2010; host resistance), Lapmak et al. (2010; L-asparaginase production), Martinez et al. (2010; Tanzania), Matusinsky et al. (2010; species specific detection), Motlagh and Anvari (2010; genetic variation), Saha et al. (2010; Ag nanoparticle production), Shali et al. (2010; SG2 chitinases inhibition), Tomaso-Peterson and Balbalian (2010; Mississippi), Acharya et al. (2011; review), Ahmadpour et al. (2011, 2012; new species), Baturo-Ciesniewska (2011; Poland), Ben-Ze'ev et al. (2011; Israel), Chowdhary et al. (2011; bronchopulmonary mycosis), Dallagnol et al. (2011a, b, 2013; host pathogen interaction), Giri et al. (2011; phaeohyphomycosis in dog), Ishihara et al. (2011; defense response), Jiao et al. (2011; MYB73 analysis), Kawahigashi et al. (2011; resistance gene cloning), Kumar et al. (2011; molecular and pathological characterization), Moya-Elizondo et al. (2011; population dynamics), Rosow et al. (2011; Cerebral phaeohyphomycosis), Vu et al. (2011, 2015; on switchgrass), Arunpanichlert et al. (2012; metabolite profiling), Da Cunha et al. (2012; clinical diversity), Manamgoda et al. (2012; phylogeny), Mizuno et al. (2012; host pathogen interaction), Nizam et al. (2012; transformation), Zhang et al. (2012d, k; host resistance, from soil), Almaguer et al. (2013; conidial germination), Burgos et al. (2013; Philippines), Eisa et al. (2013; resistance screening), Gupta et al. (2013; fungicidal management), Rossman et al. (2013a; name conservation), Tarnowski et al. (2013; South Florida), Wang et al. (2013c; metabolite as drug), Yazawa et al. (2013; transcriptome analysis), Amaradasa and Amundsen (2014; Nebraska), Bencsik et al. (2014; Ophiobolin A), Manamgoda et al. (2014; review), Meena et al. (2014; genetic evaluation of host), Minckler et al. (2014; *Bipolaris endophthalmitis*), Mishra et al. (2014b; Ag nanoparticle fungicide), Small et al. (2014; endophthalmitis), Teran et al. (2014; fatal infection), Ariyawansa et al. (2015c; phylogeny), Eghtedari (2015; conjunctiva cyst), Fatima et al. (2015; nanoparticle synthesis), Kuan et al. (2015; phylogeny, genomics), Waxman and Bergstrom (2015; New York), Kekuda et al. (2016; antifungal activity), sequences are available, paratype and ex-paratype of type species CBS 136.29.

Biporispora J.D. Rogers, Y.M. Ju & Cand. 1999, *Xylariales* genera *incertae sedis*, one species, type: *B. europaea* J.D. Rogers, Y.M. Ju & Cand., asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; placed in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Bisbyopeltis Bat. & A.F. Vital 1957, *Ascomycota* genera *incertae sedis*, one species, type: *B. phoebes* Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Biscogniauxia Kuntze 1891 (= *Albocrustum* Lloyd 1925; = *Kommamyce* Nieuwl., Am. Midl. 1916; = *Nummularia* Tul. & C. Tul 1863; = *Nummulariella* Eckblad & Granmo 1978; = *Numulariola* House 1923 *fide* Wendt et al, 2017), *Graphostromataceae*, *Xylariales*, *Sordariomycetes*, 33 species, type: *B. nummularia* (Bull.) Kuntze, asexual morph unknown, saprobes, terrestrial, France, see Mugambi et al. (2009; new species, Kenya), Lumbsch and Huhndorf (2010; outline), Vasilyeva and Stephenson (2010; new species), Vasilyeva et al. (2012; new species, Thailand), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; transferred to *Graphostromataceae*), cultures and sequences are available.

Bisifusarium L. Lombard, Crous & W. Gams 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, seven species, type: *B. dimerum* (Penz.) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lombard et al. (2015b;

taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), ex-type of the type: CBS 108944.

Bispora Corda 1837, *Ascomycota* genera *incertae sedis*, 31 species, type: *B. moniliodes* Corda, hyphomycetous, phialophora-like synanamorph, sexual morph unknown, meristematic black fungi, saprobes on wood and leaves, widespread (temperate), producer of various enzymes possessing industrial applications, see Luo et al. (2009a, b; enzymes), Wang et al. (2010a; enzyme), Dubey and Pandey (2011; new species), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Xu et al. (2013; enzymes), Hua et al. (2014; enzyme), Liu et al. (2015b; enzyme), molecular data not available from the type materials.

Bisporella Sacc. 1884 (= *Bispora* Fuckel 1870 [1869-70]; = *Calycella* Quél. 1886 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 19 species, type: *B. monilifera* (Fuckel) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequence are available but lacking for the type species.

Bisporostilbella Brandsb. & E.F. Morris 1971, *Ascomycota* genera *incertae sedis*, one species, type: *B. fusca* Brandsb. & E.F. Morris, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bisseomyces R.F. Castañeda, 1985, *Ascomycota* genera *incertae sedis*, one species, type: *B. havanensis* R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: C84/90-2, cultures and sequences are unavailable, compare with *Neojohnstonia* and *Parapithomyces*.

Bivallum P.R. Johnst. 1991, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, seven species, type: *B. zelandicum* P.R. Johnst., asexual morph unknown, saprobes, terrestrial, Australasia, Chile, Panama, see Hou and Piepenbring (2009a; new species, Panama), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blasdalea Sacc. & P. Syd., 1902 (= *Singeriella* Petr. 1959; = *Chrysogloeum* Petr. 1959 *fide* Wijayawardene et al. 2014c; Species Fungorum 2017), *Vizellaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *B. disciformis* (Rehm) Sacc. & P. Syd., asexual morph coelomycetous, ring-like or linear loculus arrangement, associated with leaf spots on leaves of *Escallonia vaccinioidess*, Brazil, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Rossman et al. (2016a; accept the genus status), cultures and sequences are unavailable.

Blastacervulus H.J. Swart 1988, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, one species, type: *B. eucalypti* H.J. Swart, coelomycetous, sexual morph unknown, pathogens, terrestrial, Australia, see Cheewangkoon et al. (2009; taxonomy, phylogeny), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy, accepted as a genus in *Planistromellaceae*), Kirk et al. (2013; genus accepted), Giraldo et al. (2017; phylogeny), cultures available for the type: CBS124759.

Blastenia A. Massal. 1852, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, eleven species, type: *B. ferruginea* (Huds.) A. Massal., lichenized, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Blasticomyces I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *B. lispini* (Thaxt.) I.I. Tav., asexual morph unknown, parasitic on Hydrophilidae: Sphaeridiinae and Staphylinidae beetles, asexual morph unknown, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters and Yaakop (2014; Borneo), cultures and sequences are unavailable.

Blastobotrys Klopotek 1967 (= *Sympodiomyces* Fell & Statzell 1971; = *Trichomonascus* H.S. Jackson emend Kurtzman & Robnett 2007; = *Stephanoascus* M.T. Sm., Van der Walt & Johannsen 1976 *fide* Species Fungorum 2017), *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, 30 species, type: *B. nivea* Klopotek, asexual reproduction by budding (occasionally) or hyphomycetous, primarily saprophytic, some species cause human infections, insect frass from trees, growth on mushrooms, moss, ensiled maize, soil, air, sea water, bat liver, human infections, worldwide, Kirk et al. (2013; genus accepted), Crous et al. (2016b; new species), cultures and sequences are available.

Blastocatena Subram. & Bhat 1989, *Ascomycota* genera *incertae sedis*, one species, type: *B. pulneyensis* Subram. & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blastodesmia A. Massal. 1852, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, one species, type: *B. nitida* A. Massal., asexual morph unknown, lichenized, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), holotype US National Herbarium barcode

01138889 – on bark of *Fraxini*, Austria (Schuler J), cultures and sequences are unavailable.

Blastodictys M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, one species, type: *B. hibisci* (Hansf.) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blastofusarioides Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *B. fusca* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blastomyces Gilchrist & W.R. Stokes 1898 (≡ *Gilchristia* Cif. & Redaelli 1934; = *Ajellomyces* McDonough & A.L Lewis 1968; = *Zymonema* Beurm. & Gougerot 1909) *Ajellomycetaceae*, *Onygenales*, *Eurotiomycetes*, two species, (but phylogenetic studies suggest the existence of more taxa *fide* de Hoog et al. 2016b), type: *B. dermatitidis* Gilchrist & W.R. Stokes, terrestrial, pathogenic to humans, canids, felines and other animals, also reported from soil, Africa, India, North America, *Blastomyces* Gilchrist & W.R. Stokes is an illegitimate genus (Art. 53.1) but, due to its wide use in medical literature, most modern authors prefer this name instead of any of its synonyms (Seifert et al. 2011), and a proposal of conservation against an earlier homonym, *Blastomyces* Costantin & Rolland, has been published (de Hoog et al. 2016b), see Saccente and Woods (2010; clinical and laboratory aspects), Brown et al. (2013; phylogeny, new species), Kirk et al. (2013; genus accepted), ex-epitype strain of the type species =CBS 674.68, sequences are available.

Blastophorella Boedijn 1937, *Ascomycota* genera *incertae sedis*, one species, type: *B. smithii* Boedijn, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South East Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blastophorum Matsush. 1971, *Reticulascaceae*, *Glomerellales*, *Sordariomycetes*, five species, type: *B. truncatum* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, China, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2016; new species, China), cultures and sequences are unavailable.

Blastophragma Subram. 1995, *Ascomycota* genera *incertae sedis*, four species, type: *B. subulatum* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Gao et al. (2015a; new species), Xia et al. (2016a; new species), holotype: MUBL 3128, cultures and sequences are unavailable.

Blennoria Moug. & Fr. 1825, *Ascomycota* genera *incertae sedis*, four species, type: *B. buxi* Fr., coelomycetous, sexual morph unknown, saprobes and plant endophytes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blennoriopsis Petr. 1920, *Ascomycota* genera *incertae sedis*, one species, type: *B. moravica* Petr., coelomycetous, sexual morph unknown, rarely reported and in case as saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blennothallia Trevis. 1853, *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, four species, type: need typification, lichenized, see Otálora et al. (2013, 2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Bleptosporium Steyaert 1961 (= *Monochaetina* Subram. 1961 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, four species, type: *B. montteae* Speg. ex Steyaert, coelomycetous, sexual morph unknown, saprobes, terrestrial, Argentina, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Blodgettia Harv. 1858 (= *Blodgettia* E.P. Wright 1881; = *Blodgettiomyces* Feldmann 1939 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *B. confervoides* Harv., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bloxamia Berk. & Broome 1854 (= *Endosporostilbe* Subram. 1958; = *Thecostroma* Clem. 1909; = *Trichotheca* P. Karst. 1887 *fide* Species Fungorum 2017), *Bloxamiaceae*, *Helotiales*, *Leotiomycetes*, 19 species, type: *B. truncata* Berk. & Broome, hyphomycetous, sexual morph unknown, saprobes, terrestrial, fresh water, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Spooren (2014; new species), Guatimosim et al. (2016b; new species, DNA, phylogeny), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), cultures and sequences are available but lacking for the type species.

Blumeria Golovin ex Speer 1974 (= *Oidium* Link 1824 *fide* Braun and Cook 2012), *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, one species, type: *B. graminis* (DC.) Speer, asexual morphs hyphomycetous, biotrophic, obligate plant pathogens, terrestrial, worldwide, see Braun and Cook (2012; taxonomy), neotype: Germany, Bonn, Botanical garden Poppelsdorf, on *Triticum aestivum*, 25 June 1869, Körnicke, in herb. de Candolle (G 00122110), sequences are available.

Blumeriella Arx 1961 (= *Higginsia* Nannf. 1932; = *Microgloeum* Petr. 1922; = *Phloeosporella* Höhn. 1924 *fide* Johnston et al. (2014b); Species Fungorum 2017), *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *B. jaapii* (Rehm) Arx, asexual morphs *Microgloeum*, *Phloeosporella*, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available.

Boeremia Aveskamp, Gruyter & Verkley 2010, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, eleven species, type: *B. exigua* (Desm.) Aveskamp, Gruyter & Verkley, asexual morph coelomycetous, saprobes or plant pathogenic, widespread, see Aveskamp et al. (2010; taxonomy, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Chen et al. (2015b; phylogeny), ex-type: CBS 101207 (*Boeremia exigua* var. *pseudolilacis*), CBS 443.94 (*Boeremia exigua* var. *heteromorpha*), CBS 100167 (*Boeremia exigua* var. *populi*).

Boerlagiomyces Butzin 1977 (= *Boerlagella* Penz. & Sacc. 1897; = *Garethjonesia* K.D. Hyde 1992 *fide* Species Fungorum 2017), *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, c. nine species, type: *B. velutinus* (Penz. & Sacc.) Butzin, asexual morph coelomycetous, saprobes, aquatic, Australia, India, Indonesia, Philippines and USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Boonmee et al. (2011, 2014b); Wijayawardene et al. (2014c; outline), Doilom et al. (2017, description), sequences are available.

Bogoriella Zahlbr. 1928 (= *Bogoriellomyces* Cif. & Tomas. 1954 *fide* Species Fungorum 2017), *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, 29 species, type: *B. subpersicina* Zahlbr., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Nelsen et al. (2014b; phylogeny), Aptroot and Lücking (2016; taxonomy), Lücking et al. (2017a; phylogeny), sequences are available.

Bolinia (Nitschke) Sacc. 1882 (= *Naemaspora* Willd. 1849 *fide* Species Fungorum 2017), *Boliniaceae*, *Boliniales*, *Sordariomycetes*, three species, type: *B. tubulina* (Alb. & Schwein.) Sacc., asexual morph unknown, saprobes, cosmopolitan, see Kirk et al. (2008; treated as a synonym of *Camarops* P. Karst.), Lumbsch and Huhndorf (2010; did not list), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), cultures and sequences are unavailable.

Bombardia (Fr.) P. Karst. 1873, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *B. bombarda* (Batsch) J. Schröt., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariomycetes*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Bombardiastrum Pat. 1893, *Sordariomycetes* genera *incertae sedis*, one species, type: *B. andinum* Pat., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Bombardiella Höhn. 1909, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *B. caespitosa* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Bombardioidea C. Moreau ex N. Lundq. 1972 (= *Bombardioidea* C. Moreau 1954 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *B. bombardioides* (Auersw.) C. Moreau ex C. Moreau, asexual morph unknown, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Bommerella Marchal 1885, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *B. trigonospora* Marchal, asexual morph scopulariopsis-like, saprobes, from soil, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), type species have been transferred to *Chaetomium* (*fide* Index Fungorum 2017).

Bonanseja Sacc. 1906, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *B. mexicana* Sacc., asexual morph unknown, saprobes, terrestrial, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bonaria Bat. 1959, *Dothideomycetes* genera *incertae sedis*, one species, type: *B. lithocarpi* (V.A.M. Mill. & Bonar) Bat., asexual morph unknown, saprobes, terrestrial, Mexico, see Lumbsch and Huhndorf (2010; outline,

accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013) did not accept as a genus in *Micropeltidaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Bondiella Piroz. 1972, *Mesnieraceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *B. palmicola* Piroz., asexual morph unknown, saprobes, terrestrial, Tanzania, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Boothiella Lodhi & Mirza 1962 (= *Thielaviella* Arx & T. Mahmood 1968 *fide* Species Fungorum 2017), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *B. tetraspora* Lodhi & J.H. Mirza, asexual morph unknown, saprobes, from soil, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Boreoplaca Timdal 1994, *Ophioparmaceae*, *Umbilicariales*, *Lecanoromycetes*, one species; type: *B. ultrafrigida* Timdal, lichenized, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; phylogeny), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; taxonomy), Lücking et al. (2017a; classification), holotype: O-L-127, sequences are available.

Borinquenotrema Mercado-Díaz, Lücking & Parnmen 2014, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *B. sorediocarpum* Mercado-Díaz, Lücking & Parnmen, lichenized, terrestrial, see Lumbsch et al. (2014a, b; taxonomy), Lücking et al. (2017a; classification), holotype: UPR, Mercado-Díaz 883, sequences are available.

Botanamphora Nograsek & Scheuer 1990, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *B. pachycarpa* (Sacc. & Marchal) Nograsek & Scheuer, asexual morph unknown, saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated Melanconidaceae as a synonym of Gnomoniaceae), cultures and sequences are unavailable.

Botryandromyces I.I. Tav. & T. Majewski 1976, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *B. heteroceri* (Maire) I.I. Tav. & T. Majewski, asexual morph unknown, parasitic on Heteroceridae beetles, semi-aquatic, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence is available but lacking for the type species.

Botryobambusa Phook., J.K. Liu & K.D. Hyde 2012, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *B. fusicoccum* Phook., J.K. Liu & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline), holotype and ex-type: MFLU 11-0179, MFLUCC 11-0143.

Botryochora Torrend 1914, *Dothideomycetes* genera *incertae sedis*, one species, type: *B. nigra* (Torrend) Torrend, asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothioraceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Botryoderma Papendorf & H.P. Upadhyay 1969, *Ascomycota* genera *incertae sedis*, four species, type: *B. lateritium* Papendorf & H.P. Upadhyay, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Botryodiplodina Dias & Sousa da Câmara 1954, *Ascomycota* genera *incertae sedis*, one species, type: *B. mori* Dias & Sousa da Câmara, coelomycetous, sexual morph unknown, saprobes, terrestrial, Portugal, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Botryohypoxylon Samuels & J.D. Rogers 1986 (= *Iledon* Samuels & J.D. Rogers 1986 *fide* Wijayawardene et al. 2014c), *Dothideomycetes* genera *incertae sedis*, one species, type: *B. nigra* (Torrend) Torrend, asexual morph coelomycetous, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Rossman et al. (2015b; nomenclature), cultures and sequences are unavailable.

Botryola Bat. & J.L. Bezerra 1964, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, six species, type: *B. tetrasperma* Bat. & J.L. Bezerra, asexual morph unknown, saprobes, lichenicolous, terrestrial, saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Botryolepraria Canals, Hern.-Mar., Gómez-Bolea & Llimona 1997, *Verrucariales* genera *incertae sedis*, *Eurotiomycetes*, two species, type: *B. lesdainii* (Hue) Canals, Hern.-Mar., Gómez-Bolea & Llimona, lichenized, worldwide, see Kukwa and Pérez-Ortega (2010; taxonomy), Lumbsch and Huhndorf (2010; outline,

accepted as a genus in *Lecanoromycetes*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Botryomonilia Goos & Piroz. 1975, *Ascomycota* genera *incertae sedis*, four species, type: *B. scheeleae* Goos & Piroz., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Central America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Botryosphaeria Ces. & De Not. 1863 (= *Fusicoccum* Corda 1829; = *Dichomera* Cooke 1878 *fide* Wijayawardene et al. 2014c, 2016b; Rossman et al. 2015b; Art. 59), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, eleven species, type: *B. dothidea* (Moug. Fr.) Ces. & De Not., asexual morph coelomycetous, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2012b; accepted as a genus in *Botryosphaeriaceae*), Abdollahzadeh et al. (2013; species in Iran), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; taxonomy, phylogeny), Slippers et al. (2013; phylogeny), Yan et al. (2013; species associated with grpe vine), Wijayawardene et al. (2014c, 2016b; outline, taxonomy), Xu et al. (2015, apple ring rot), Ariyawansa et al. (2016a; new species), Dissanayake et al. (2016b; taxonomy), cultures and sequences are available.

Botryosporium Corda 1831 (= *Peylia* Opiz 1857; *Radaisiella* Bainier 1910 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, seven species, type: *B. diffusum* (Grev.) Corda, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, cosmopolitan, see Campbell et al. (2007; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Choi et al. (2014; pathogens, DNA), cultures and sequences are available but lacking for the type.

Botryostroma Höhn. 1911 (= *Parodiellina* Viégas 1944; = *Robledia* Chardón 1929 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *B. inaequale* (G. Winter) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, America (tropical) see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Botryozyma Shann & M.Th. Smith emend. Lachance & Kurtzman 2013, *Trigonopsidaceae*, *Saccharomycetales*, *Saccharomycetes*, four species, type: *B. nematodophila* Shann & M.T. Smith, asexual reproduction by budding (multilateral), ?saprophytic, from Panagrellus nematodes or associated with *Drosophila* flies, north western USA, Italy, see Kirk et al. (2013; genus accepted), Lachance and Kurtzman (2013; re-visited, generic revision), cultures and sequences are available.

Botrytis P. Micheli ex Pers. 1794 (= *Botryotinia* Whetzel 1945 *fide* Johnston et al. 2014b; see Species Fungorum 2017 for synonyms), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *B. cinerea* Pers., asexual morph hyphomycetous, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available.

Boubovia Svrček 1977, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, five species, type: *B. luteola* (Velen.) Svrček, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Boudiera Cooke 1877 (= *Svrcekia* Kubička 1960 *fide* Species Fungorum 2017), *Pezizaceae*, *Pezizales*, *Pezizomycetes*, ten species, type: *B. areolata* Cooke & W. Phillips, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Boudierella Sacc. 1895, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *B. cana* Marchal & É.J. Marchal, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Bouvetiella Øvstedal 1986, *Lecanoromycetes* genera *incertae sedis*, one species; type: *B. pallida* Øvstedal, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Brachiosphaera Nawawi 1976, *Aliquandostipitaceae*, *Jahnulales*, *Dothideomycetes*, two species, type: *B. tropicalis* Nawawi, isolated from river foam: Peninsular Malaysia, see Seifert et al. (2011; morphology), Suetrong et al. (2011a; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sexual morph unknown, cultures and sequences are available for authentic strains SS2523, E192–1.

Brachyalara Réblová & W. Gams 2011, *Helotiales*, genera *incertae sedis*, *Leotiomycetes*, one species, type: *B. straminea* Réblová & W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Réblová and Gams (2011; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), ex-type of the type: CBS 175.74.

Brachycephala J.S. Monteiro, Gusmão & R.F. Castañeda 2015, *Ascomycota* genera *incertae sedis*, one

species, type: *B. exotica* J.S. Monteiro, Gusmaño & Castañeda-Ruiz, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Monteiro et al. (2015b; morphology), holotype of the type: HUEFS 210446, cultures and sequences are unavailable, compare with *Acarocybellina*, *Brachysporiella* and *Kramabeeja*.

Brachyconidiella R.F. Castañeda & W.B. Kendr. 1990 *Ascomycota* genera *incertae sedis*, *Dothidiomycetes*, one species, type: *B. monilispora* R.F. Castañeda & W.B. Kendr., sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: INIFAT C88/300, sequences are available, compare with *Brachyconidiellopsis* and *Matsushimaea.*

Brachyconidiellopsis Decock, R.F. Castañeda & Adhikari 2004, *Microascaceae*, *Microascales*, *Sordariomycetes*, two species, type: *B. fimicola* Decock, R.F. Castañeda & Adhikari, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015a, b; outline, phylogeny), holotype: MUCL 44677, cultures and sequences are available.

Brachydesmiella G. Arnaud ex S. Hughes 1961, *Ascomycota* genera *incertae sedis*, eight species, type: *B. biseptata* G. Arnaud ex S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Brachyphoris Juan Chen, L.L. Xu, B. Liu & Xing Z. Liu 2007, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, five species, type: *B. oviparasitica* (G.R. Stirling & Mankau) Juan Chen, L.L. Xu, B. Liu & Xing Z. Liu, saprobes, on nematode eggs, on soil, terrestrial, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Brachysporiella Bat. 1952 (= *Edmundmasonia* Subram. 1958; = *Monosporella* S. Hughes1953; = *Monotosporella* S. Hughes 1958; = *Sporidesmiopsis* Subram. & Bhat 1989 [1987] *fide* Species Fungorum 2017), *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, 16 species, type: *B. gayana* Bat., hyphomycetous, sexual morph unknown, saprobes, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011: morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2017; introduced *B. navarrica* Hern.-Restr. et al. and accepted as *Kirschsteiniotheliales*, *incertae sedis*), sequences are available.

Brachysporiellina Subram. & Bhat 1989, *Ascomycota* genera *incertae sedis*, two species, type: *B. pulneyensis* Subram. & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Brachysporiopsis Yanna, W.H. Ho & K.D. Hyde 2004, *Ascomycota* genera *incertae sedis*, one species, type: *B. chinensis* Yanna, W.H. Ho & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Brachysporium Sacc. 1886 (= *Cryptadelphia* Réblová & Seifert 2004 *fide* Réblová et al. 2016c), *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, twelve species, type: *B. obovatum* Keissl., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Bradymyces Hubka, Réblová, Selbmann & M. Kolařík 2014, *Trichomeriaceae*, *Chaetothyriales*, *Eurotiomycetes*, three species, type: *B. oncorhynchi* Hubka, Řehulka Réblová, & M. Kolařík, sexual morph unknown, cold-blooded, water vertebrates opportunist, rock-inhabiting, see Hubka et al. (2014b; taxonomy, phylogeny), Réblová et al. (2016b; new species), holotype and ex-type of the type: PRM 861507 CBS 133066 = CCF 4369 = CCFEE 6134.

Bramhamyces Hosag. 2009, *Dothideomycetes* genera *incertae sedis*, one species, type: *B. ilicis* Hosag. & Chandrapr, sexual morph unknown, epiphytes, terrestrial, India, see Hosagoudar and Chandraprabha (2009a; protologue, accepted as an anamorphic genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes* genera *incertae sedis*), holotype of the type: HCIO 48300, cultures and sequences are unavailable.

Brasilicia Lücking, Kalb & Sérus. 2008, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *B. brasiliensis* (Müll. Arg.) Lücking, Kalb & Sérus., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences unavailable.

Braunomyces V.A. Melnik & Crous 2014, *Ascomycota* genera *incertae sedis*, one species, type: *B. dictyosporus* V.A. Melnik & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Vietnam, see Mel'nik and Crous (2014; taxonomy), Wijayawardene et al. (2017; outline), holotype: HAL 2606 F, cultures and sequences are unavailable.

Brefeldiella Speg. 1889, *Trichopeltinaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *B. brasiliensis* Speg., asexual morph unknown, epiphytes, appearance as thallus on leave, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014a; accepted as a genus in *Trichopeltinaceae*), Wijayawardene et al. (2014c; outline), need recollecting and sequencing to verify generic placement.

Brefeldiopycnis Petr. & Cif. 1932, *Ascomycota* genera *incertae sedis*, one species, type: *B. membranacea* Petr. & Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Brefeldochium Verkley 2005, *Helotiales* genera *incertae sedis Leotiomycetes*, one species, type: *B. pruinosum* Verkley, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline, taxonomy), cultures available for the type: CBS 160.92.

Brenesiella Syd. 1929, *Sordariomycetes*, genera *incertae sedis*, one species, type: *B. erythroxyli* Syd., asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Brettanomyces Kufferath & van Laer 1921, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, six species, type: *B. bruxellensis* Kufferath & van Laer, asexual reproduction is either by multilateral budding or, rarely, by bipolar budding on a narrow base, saprophytes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), cultures and sequences are available.

Breviappendix Senan. & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *B. rubi* (Rehm) Senan., Maharachch. & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), epitype: MFLU 16–2861, cultures and sequences are available.

Brevicatenospora R.F. Castañeda, Minter & Saikawa 2006, *Ascomycota* genera *incertae sedis*, one species, type: *B. enteroproliferata* R.F. Castañeda, Minter & Saikawa, hyphomycetous, sexual morph unknown, saprobes, aquatic (fresh water), Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: INIFAT C04/111, cultures and sequences are unavailable, compare with *Annellophora*, *Acrogenospora*, *Belemnospora*, *Sporidesmiella* and *Repetophragma*.

Brevistachys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *B. variabilis* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22431, CBS 141057.

Brianaria S. Ekman & M. Svensson 2014, *Psoraceae*, *Lecanorales*, *Lecanoromycetes*, four species, type: *B. sylvicola* (Flot. ex Körb.) S. Ekman & M. Svensson, lichenized, terrestrial, see Ekman and Svensson (2014; taxonomy), Lücking et al. (2017a; classification), type specimen UPS-L-133138 (lectotype), sequences are available.

Briancoppinsia Diederich, Ertz, Lawrey & van den Boom 2012, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *B. cytospora* (Vouaux) Diederich, Ertz, Lawrey & van den Boom, coelomycetous, sexual morph unknown, lichenicolous, non-lichenized, terrestrial, Europe, North America, see Diederich et al. (2012b; morphology, phylogeny), Wijayawardene et al. (2017; outline), sequences are available.

Briania D.R. Reynolds 1989, *Meliolinaceae*, *Dothideomycetes*, families *incertae sedis*, one species, type: *B. fruticetum* D.R. Reynolds, sexual morph unknown, saprobes, terrestrial, Hawaiian Island, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bricookea M.E. Barr 1982, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *B. sepalorum* (Vleugel) M.E. Barr, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Kirk et al. (2013; treated as a synonym of *Lophiostoma*), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Brigantiaea Trevis. 1853 (= *Myxodictyon* A. Massal. 1860 [1859-1860]; = *Myxodictyonomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Brigantieaceae*, *Teloschistales*, *Lecanoromycetes*, 29 species; type: *B. tricolor* (Mont.) Trevis., lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Briosia Cavara 1888, *Ascomycota* genera *incertae sedis*, six species, type: *B. ampelophaga* Cavara, hyphomycetous, plant pathogen, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Brobdingnagia K.D. Hyde & P.F. Cannon 1999, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two

species, type: *B. nigeriensis* (Sivan. & Okpala) Hyde & Cannon, asexual morph unknown, pathogens, saprobes, terrestrial, Australia, Sierra Leone, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of *Brobdingnagia nigeriensis* subsp. *corneri* IMI 390a.

Brodoa Goward 1987, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *B. oroarctica* (Krog) Goward, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Brooksia Hansf. 1956 (= *Capnogonium* Bat. & Peres 1961; = *Hiospira* R.T. Moore 1962; = *Overeemia* G. Arnaud 1954 [1953] *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b; Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, three variety, type: *B. tropicalis* Hansf., hyphomycetous, on leaf as parasite, common in tropical regions, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; nomenclature), Rossman et al. (2015b; nomenclature), sequences are unavailable, need recollecting to verify generic placement.

Broomella Sacc. 1883 (= *Keissleria* Höhn. 1918 *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *B. vitalbae* (Berk. & Broome) Sacc., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Li et al. (2015d; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; outline), cultures available for the type: MFLUCC 15-0023 (fide Li et al. 2015).

Brownliella S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, four species, lichenized, terrestrial, see Kondratyuk et al. (2013a, 2015b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Bruceomyces Rikkinen 2012 (= *Brucea* Rikkinen 2003 *fide* Species Fungorum 2017), *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, four species, type: *B. castoris* (Rikkinen) Rikkinen, lichenized, terrestrial, see Tuovila et al. (2012; taxonomy), cultures and sequences are unavailable.

Brunneiapiospora K.D. Hyde, J. Fröhl. & Joanne E. Taylor 1998, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, six species, type: *B. javensis* K.D. Hyde, J. Fröhl. & Joanne E. Taylor, asexual morphs unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Vitoria et al. (2012; new species), Crous et al. (2012c; new species, New Zealand), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, treated as *Clypeosphaeriaceae*), Hongsanan et al. (2017a; phylogeny, evolution, treated *Clypeosphaeriaceae* as a synonym of *Xylariaceae*), cultures and sequences are available for unidentified species.

Brunneiperidium Daranag., Camporesi & K.D. Hyde 2015, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *B. gracilentum* Daranag., Camporesi & K.D. Hyde, asexual morph hyphomycetous, only known for *B. gracilentum*, saprobes, terrestrial, Italy, Europe, two species, all the species have molecular data, see Daranagama et al. (2015a; taxonomy, phylogeny), Maharachchikumbura et al. (2016b; outline), ex-type: MFLUCC 14-0011; holotype MFLU 14-0229.

Brunneocarpos Giraldo & Crous 2016, *Mycocaliciaceae*, *Mycocaliciales*, *Eurotiomycetes*, one species, type: *B. banksiae* Giraldo & Crous, asexual morph unknown, saprobes, Australia, see Crous et al. (2016b; taxonomy, phylogeny), holotype and ex-type: CBS H-22633, CPC 29841.

Brunneoclavispora Phook. & K.D. Hyde 2015, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *B. bambusae* Phook. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 11-0213, MFLUCC 11-0177.

Brunneodinemasporium Crous & R.F. Castañeda 2012, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, two species, type: *B. brasiliense* Crous & Castañeda, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Crous et al. (2012g; morphology, phylogeny), Maharachchikumbura et al. (2015a, b; classification, phylogeny), Lu et al. (2016; new species), Wijayawardene et al. (2016b; morphology, phylogeny), ex-type: CPC 112007; holotype CBS H-20948.

Brunneosphaerella Crous 2009, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *B. protearum* (Syd. & P. Syd.) Crous., asexual morph coelomycetous, saprobes, terrestrial, South Africa, see Crous et al. (2009d, 2011d; morphology; phylogeny), Schoch et al. (2009; morphology, phylogeny), Hyde et al. (2013; accepted as in *Mycosphaerellaceae*), Wijayawardene et al. (2014c; accepted as in *Mycosphaerellaceae*), epitype: CBS H-20335, ex-epitype culture CBS 130597 = cCPC 16368.

Brunneosporella Ranghoo & K.D. Hyde 2001, *Papulosaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, one species, type: *B. aquatica* Ranghoo & K.D. Hyde, one species, asexual morph unknown, saprobes, aquatic, Hong Kong, see Lumbsch and Huhndorf (2010; outline, as a genus in *Annulatascaceae*), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Papulosaceae*), holotype: HKU (M) 5251.

Brunnipila Baral 1985, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, c. ten species, type: *B. clandestina* (Bull.) Baral, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacking for the type species.

Brycekendrickia Nag Raj 1973, *Ascomycota* genera *incertae sedis*, one species, type: *B. indica* Nag Raj., coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Brycekendrickomyces Crous & M.J. Wingf. 2009, *Trichomeriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *B. acaciae* Crous & Wingf, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Indonesia, see Crous et al. (2009a; morphology, phylogeny), holotype and ex-type: CBS H-20198, CPC 15078 = CBS 124104.

Bryobilimbia Fryday, Printzen & S. Ekman 2014, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, six species, type: *B. hypnorum* (Lib.) Fryday, Printzen & S. Ekman, lichenized, see Fryday et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Bryocaulon Kärnefelt 1986, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, four species, type: *B. divergens* (Ach.) Kärnefelt, lichenized, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Bryocentria Döbbeler 2004, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, eight species, type: *B. brongniartii* (P. Crouan & H. Crouan) Döbbeler, sexual morph unknown, saprobes, epiphytes, terrestrial, cosmopolitan, see Döbbeler (2010; new species), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Bryochiton Döbbeler & Poelt 1978, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *B. monascus* Döbbeler & Poelt, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available for unidentified species.

Bryoclaviculus L. Ludw., P.R. Johnst. & Steel 2013, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *B. campylopi* P.R. Johnst., asexual morph unknown, saprobes, terrestrial, New Zealand, see Johnston et al. (2013; taxonomy, DNA), holotype of the type: OTA 062197, cultures and sequences are available.

Bryodina Hafellner 2001, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *B. rhypariza* (Nyl.) Hafellner, with ascomata, terrestrial (bryophilous), Northern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences unavailable.

Bryoglossum Redhead 1977, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *B. gracile* (P. Karst.) Redhead, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available for the type: DAOM178087.

Bryogomphus Lücking, W.R. Buck, Sérus. & L.I. Ferraro 2005, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *B. caribaeus* (W.R. Buck) Lücking, W.R. Buck, Sérus. & L.I. Ferraro, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Bryonora Poelt 1983, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, eleven species, type: *B. castanea* (Hepp) Poelt, with ascomata, terrestrial (bryophilous), bipolar, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available only for the type species.

Bryopelta Döbbeler & Poelt 1978, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *B. variabilis* Döbbeler & Poelt, asexual morph unknown, saprobes, terrestrial, Norway, Sweden, see Lumbsch and Huhndorf (2010; outline; accepted as a genus in *Dothideomycetes*), Kirk et al. (2013; genus accepted), Li et al. (2014b; accepted as a genus in *Mycosphaerellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Bryoplaca Søchting, Frödén & Arup 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *B. sinapisperma* (DC.) Søchting, Frödén & Arup, lichenized, Northern Hemisphere and Antarctica, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Bryorella Döbbeler 1978, *Dothideomycetes* genera *incertae sedis*, ten species, type: *B. acrogena* Döbbeler, asexual morph unknown, saprobes or parasitic, terrestrial, Europe (Italy, Austria, Poland, Sweden, Switzerland), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Li et al. (2014b; taxonomy), Wijayawardene et al. (2014c; outline), sequences are available.

Bryoria Brodo & D. Hawksw. 1977 (= *Bryopogon* Th. Fr. 1860; *Setaria* Ach. ex Michx. 1803 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, c. 60 species, type: *B. trichodes* (Michx) Brodo & D. Hawksw., widespread but mainly N Hemisphere, see Lumbsch and Huhndorf (2010; outline), Myllys et al. (2011, 2014; phylogeny), Kirk et al. (2013; genus accepted), Velmala et al. (2014; phylogeny), Jaklitsch et al. (2016a; position), Lücking et al. (2017a; classification), holotype: PC, sequences are available.

Bryoscyphus Spooner 1984 (= *Calyptellopsis* Svrček 1986 *fide* Jaklitsch et al. 2016a), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 19 species, type: *B. conocephali* (Boyd) Spooner, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; DNA), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacking for the type.

Bryosphaeria Döbbeler 1978, *Trematosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, nine species, type: *B. cinclidoti* (Racov.) Döbbeler, asexual morph unknown, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Li et al. (2014b; transferred to *Trematosphaeriaceae*), sequences are unavailable.

Bryostigma Poelt & Döbbeler 1979, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, two species, type: *B. leucodontis* Poelt & Döbbeler, lichenized, see Sundin et al. (2012; taxonomy), Frisch et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Bryostroma Döbbeler 1978, *Dothideomycetes* genera *incertae sedis*, seven species, type: *B. rhacomitrii* Döbbeler, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Bryothele Döbbeler 1998, *Dothideomycetes* genera *incertae sedis*, one species, type: *B. mira* Döbbeler & Melnik, asexual morph unknown, saprobes or parasitic, terrestrial, America and Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Budhanggurabania P. Wong, Khemmuk & R.G. Shivas 2015, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *B. cynodonticola* P. Wong, Khemmuk & R.G. Shivas, coelomycetous, saprobes, Australia, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline) holotype of the type: BRIP 59305, includes cultures.

Buellia De Not. [nom. cons.] 1846, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 300 species, type: *B. disciformis* (Fr.) Mudd, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Prieto and Wedin (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Buelliastrum Zahlbr. 1930, *Lecanoromycetes* genera *incertae sedis*, two species, type: need typification data, lichenized, China, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Buelliella Fink 1935, *Asterinales* genera *incertae sedis*, *Dothideomycetes*, eleven species, type: *B. minimula* (Tuck.) Fink, lichenicolous, Asia, see Hafellner et al. (2008; new species), Lumbsch and Huhndorf (2010; outline), Pérez-Ortega and Etayo (2010; new species), van den Boom (2010; new species), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Ertz and Diederich (2015; phylogeny, accepted in *Asterinales*), sequences are available.

Buerenia M.S. Reddy & C.L. Kramer 1975, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, three species, type: *B. cicutae* (Lindr.) M.S. Reddy & C.L. Kramer, asexual morph unknown, ?saprobes or parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Buergenerula Syd. 1936 (= *Yukonia* R. Sprague 1962 *fide* Species Fungorum 2017), *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, six species, type: *B. biseptata* (Rostr.) Syd., asexual morph harpophora-like and pyricularia-like, pathogen, marine and freshwater habitats, worldwide, see Jones et al. (2009b, 2015; outline), Lumbsch and Huhndorf (2010; outline), Yuan et al. (2010; phylogeny), Al-Nasrawi and Hughes (2012; diversity), Kirk et al. (2013; genus accepted), Luo and Zhang (2013; phylogeny), Chen et al. (2014; mitoviruses), Hujslová et al. (2014; phylogeny), Klaubauf et al. (2014; phylogeny), Calado et al. (2015; diversity, ecology), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Bulbilopycnis Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *B. caffra* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, Transvaal, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bulbithecium Udagawa & T. Muroi 1990, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *B. hyalosporum* Udagawa & T. Muroi, asexual morph acremonium-like, saprobes, India, see Lumbsch and Huhndorf (2010; outline), Giraldo et al. (2012; DNA, phylogeny), Kirk et al. (2013; genus accepted),

Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 318.91.

Bulbocatenospora R.F. Castañeda & Iturr. 2000, *Ascomycota* genera *incertae sedis*, one species, type: *B. complanata* R.F. Castañeda, Iturr. & Decock, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Venezuela, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: MUCL 40705, cultures and sequences are unavailable, compare with *Piricauda*, *Chuppia*, *Neoarbuscula* and *Peyronelia*.

Bulbomollisia Graddon 1984, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *B. radiata* Graddon, sexual morph unknown, saprobes, UK, see Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Bulbothrix Hale 1974, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 60 species, type: *B. semilunata* (Lynge) Hale, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Benatti (2013; review), Kirika et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Bulgaria Fr. 1822, *Phacidiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *B. inquinans* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, northern and southern temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014b; phylogeny), cultures available for the type: CBS 315.71.

Bulgariella P. Karst. 1885, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *B. pulla* (Fr.) P. Karst., asexual morph unknown, saprobes, terrestrial, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available (unpublished).

Bulgariopsis Henn. 1902, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *B. moelleriana* Henn., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bullanockia Crous 2016, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *B. australis* Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: CBS H-22879, CPC 28976.

Bullaserpens Bat., J.L. Bezerra & Cavalc. 1965, *Ascomycota* genera *incertae sedis*, one species, type: *B. bignoniacearum* Bat., J.L. Bezerra & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Bullimyces A. Ferrer, A.N. Mill., C. Sarmiento & Shearer 2012, *Sordariomycetidae incertae sedis*, *Sordariomycetes*, three species, type: *B. communis* A. Ferrer, A.N. Mill., Sarmiento & Shearer, Costa Rica, see Ferrer et al. (2012; taxonomy), Cai et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: AF281-1, ILL, cultures and sequences are available.

Bunodophoron A. Massal. 1861, *Sphaerophoraceae*, *Lecanorales*, *Lecanoromycetes*, 24 species, type: *B. australe* (Laurer) A. Massal., asexual morph unknown, lichenized, terrestrial, mainly in the temperate rainforests of the Southern Hemispheres, rarely in oceanic areas of the Northern Hemisphere or in high-altitude rainforests in tropical or subtropical areas, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Burenia M.S. Reddy & C.L. Kramer 1975, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, three species, type: *B. cicutae* (Lindr.) M.S. Reddy & C.L. Kramer, asexual reproduction is unknown, plant parasitic, parasitic on Apiaceae, Europe, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Bussabanomyces Klaubauf, Lebrun & Crous 2014, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *B. longisporus* (Bussaban) Klaubauf, Lebrun & Crous, hyphomycetous, sexual morph unknown, endophyte, terrestrial, Thailand, see Klaubauf et al. (2014; morphology, phylogeny), Maharachchikumbura et al. (2015; outline), Wijayawardene et al. (2017; outline), holotype and ex-type: BCC11377, CBS 125232.

Butleria Sacc. 1914, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *B. inaghatahani* Sacc., asexual morph unknown, parasitic, terrestrial, tropical, holotype of type: PAD 1677, see Lumbsch and Huhndorf (2010; outline), Li et al. (2011; morphology), Kirk et al. (2013; genus accepted), Dissanayake et al. (2014; morphology), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Byrsomyces Cavalc. 1972, *Sordariomycetes* genera *incertae sedis*, one species, type: *B. olivaceus* Cavalc., asexual morph unknown, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), type material is not in good condition hence need to recollect and subject them to molecular analysis, holotype: URM 27661 /Exs. 20057.

Byssoascus Arx 1971, *Myxotrichaceae*, *Leotiomycetes* families *incertae sedis*, two species, type: *B. striatosporus* (G.L. Barron & C. Booth) Arx, asexual morph unknown,

saprobes, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype: BF 24290, cultures available for type: UAMH 3572.

Byssocallis Syd. 1927, *Dothideomycetes* genera *incertae sedis*, two species, type: *B. phoebes* Syd., asexual morph unknown, parasitic on living leaves (*Phoebe tonduzii* Mez. and *Podocarpus elongate* L'Herit.), see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Tubeufiaceae*), Hyde et al. (2013) and Boonmee et al. (2014b) did not accept as a genus in *Tubeufiaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Byssocaulon Mont. 1835, *Chrysotrichaceae*, *Arthoniales*, *Arthoniomycetes*, six species, type: *B. niveum* Mont., lichenized, saxicolous or epiphytic, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Byssogene Syd. 1922, *Dothideomycetes* genera *incertae sedis*, two species, type: *B. amboinensis* Syd., asexual morph unknown, saprobes, terrestrial, Brazil and Indonesia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), da Silva (2016; taxonomy, phylogeny, accepted as a genus in *Saccardiaceae*), cultures and sequences are unavailable.

Byssolecania Vain. 1921 (= *Dothiomyces* Bat. & J.L. Bezerra 1961; = *Gonolecania* Zahlbr. 1924; = *Lecaniella* Vain. 1896 *fide* Species Fungorum 2017), *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, seven species, type: *B. fuscolivida* Vain., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Byssoloma Trevis. 1853 (= *Calidia* Stirt. 1876; = *Limbalba* Nieuwl. 1916; = *Pilocarpon* Vain. 1890; = *Tricholechia* A. Massal. 1853; = *Wainioa* Nieuwl. 1916 *fide* Species Fungorum 2017), *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, possibly heterogeneous, c. 50 species, type: *B. leprieurii* Trevis., sexual morph with apothecioid ascomata usually having a byssoid margin, asexual morph coelomycetous, rarely campylidial, lichenized, terrestrial, mainly foliicolous in tropical rainforests, see Lücking (2008; morphology), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), van den Boom (2016; new species), holotype: Leprieur 1366 (PC), sequences are available but lacking for the type species.

Byssonectria P. Karst. 1881 (= *Inermisia* Rifai 1968; = *Pseudocollema* Kanouse & A.H. Sm. 1940 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, eleven species, type: *B. obducens* P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lindemann et al. (2015; new species, DNA), cultures and sequences are available but lacking for the type.

Byssoonygena Guarro, Punsola & Cano 1987, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *B. ceratinophila* Guarro, Punsola & Cano, asexual morph unknown, saprobes, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), culture available for the type: IMI 370021.

Byssophytum Mont. 1848, *Ascomycota* genera *incertae sedis*, one species, type: *B. sulphureum* Mont., asexual morph unknown, lichenized, terrestrial, Java, Tahiti, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Byssosphaeria Cooke 1879 (= *Macbridella* Seaver 1909; = *Xenonectria* Höhn. 1920 *fide* Species Fungorum 2017), *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, 25 species, type: *B. keithii* (Berk. & Broome) Cooke, chaetophoma-like, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tian et al. (2015; morphology, phylogeny), cultures and sequences of type species are unavailable.

Byssotheciella Petr. 1923, *Sordariomycetes*, genera *incertae sedis*, two species, type: *B. tiliae* Petr., asexual morph unknown, saprobes, terrestrial, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Byssothecium Fuckel 1861, *Dothideomycetes* genera *incertae sedis*, eight species, type: *B. circinans* Fuckel, asexual morph coelomycetous, saprobes or parasites, terrestrial, freshwater or marine, worldwide, see Zhang et al. (2009e) accepted as *Massarinaceae* but Zhang et al. (2012e) showed it distinct from *Massarinaceae*, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Byssotrema M. Cáceres, Aptroot & Lücking 2014, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *B. mirabile* M. , Aptroot & Lücking, lichenized, see Cáceres et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Caccobius Kimbr. 1967, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, c. six species, type: *C. minusculus* Kimbr., asexual morph unknown, coprophilous, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cacumisporium Preuss 1851, *Ascomycota* genera *incertae sedis*, seven species, type: *C. tenebrosum* Preuss, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, Europe, North America, see Wongsawas et al. (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cadophora Lagerb. & Melin 1927, *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, 15 species, type: *C. fastigiata* Lagerb. & Melin, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Navarrete et al. (2011; associated with grapevine trunk diseases), Seifert et al. (2011; morphology), Day et al. (2012; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Travadon et al. (2015; new species), cultures and sequences are available.

Caeruleum Arcadia 2012, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, two species; type: *C. heppii* (Nägeli ex Körb.) K. Knudsen & Arcadia, lichenized, see Arcadia and Knudsen (2012; taxonomy), Lücking et al. (2017a; classification), sequences unavailable.

Caespitotheca S. Takam. & U. Braun 2005, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, one species, type: *C. forestalis* (Mena) S. Takam. & U. Braun, asexual morphs hyphomycetous, biotrophic, obligate plant pathogens, terrestrial, South America (Argentina), see Lumbsch and Huhndorf (2010; outline), Braun and Cook (2012; taxonomy), sequences are available.

Cainia Arx & E. Müll. 1955, *Cainiaceae*, *Xylariales*, *Sordariomycetes*, seven species, type: *C. graminis* (Niessl) Arx & E. Müll., asexual morph coelomycetous, saprobes, pathogenic, terrestrial, temperate, see Kirk et al. (2008, 2013; genus accepted), Lumbsch & Huhndorf (2010; outline), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; phylogeny), cultures and sequences are available, reference specimens: CBS 136.62, MFLUCC 15-0540 = It 1462.

Cainiella E. Müll. 1957, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *C. johansonii* (Rehm) E. Müll., asexual morphs unknown, saprobes, terrestrial, Canada, Europe, see Lumbsch and Huhndorf (2010; outline), Kruys and Castlebury (2012; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2017, placement), cultures and sequences are available.

Cainomyces Thaxt. 1901, *Laboulbeniales* genera *incertae sedis*, *Laboulbeniomycetes*, one species, type: *C. isomali* Thaxt., asexual morph unknown, saprobes, terrestrial, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Calathaspis I.M. Lamb & W.A. Weber 1972, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. devexa* I.M. Lamb & W.A. Weber, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Calcarispora Marvanová & Marvan 1963, *Ascomycota* genera *incertae sedis*, one species, type: *C. hiemalis* Marvanová & Marvan, hyphomycetous, sexual morph unknown, aquatic, Europe and Canada, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Calcarisporium Preuss 1851, *Calcarisporiaceae*, *Hypocreales*, *Sordariomycetes*, 15 species, type: *C. arbuscula* Preuss, hyphomycetous, sexual morph unknown, saprobes, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Sun et al. (2016, 2017; new species, placement), cultures and sequences Anthostomelloides available.

Calceispora Matsush. 1975, *Ascomycota* genera *incertae sedis*, two species, type: *C. hachijoensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Calceomyces Udagawa & S. Ueda 1988, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. lacunosus* Udagawa & S. Ueda, asexual morph hyphomycetous, saprobes, terrestrial (collected from activated sludge), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as *Xylariales* genera *incertae sedis*), cultures and sequences are available, type: CBS 633.88 = NHL 2983.

Calenia Müll. Arg. 1890 (= *Phlyctidium* Müll. Arg. 1888 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, 30 species, type: *C. depressa* Müll. Arg., lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Caleniopsis Vězda & Poelt 1987 (= *Caleniomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *C. laevigata* (Müll. Arg.) Vězda & Poelt, lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Caleutypa Petr. 1934, *Sordariomycetes*, genera *incertae sedis*, two species, type: *C. maculans* Petr., saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Caliciopsis Peck 1883 (= *Capnodiella* (Sacc.) Sacc. & D. Sacc. 1905; = *Capnodium* subgen. *Capnodiella* Sacc. 1882; = *Hypsotheca* Ellis & Everh. 1885; = *Lagenula* G. Arnaud 1930; =Sorica Giesenh. 1904 *fide* Species Fungorum 2017), *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, 31 species, type: *C. pinea* Peck, asexual morph coelomycetous (phoma-like), parasites, pathogens, see Lumbsch and Huhndorf (2010; outline), Pratibha et al. (2010; new species), Garrido-Benavent and Pérez-Ortega (2015; new species), Crous et al. (2016a; new species, phylogeny), Wood et al. (2016; DNA, phylogeny), cultures available for the type: CBS 139.64.

Calicium Pers. 1794 (= *Cyphelium* Ach. 1815; see Species Fungorum 2017 for additional synonyms), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 30 species, type: *C. viride* Pers., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Prieto and Wedin (2016; classification), Lücking et al. (2017a; classification), sequences are available.

Callebaea Bat. 1962, *Dothideomycetes*, genera *incertae sedis*, one species, type: *C. rutideae* (Hansf.) Bat., saprobes, terrestrial, Uganda, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Callerascus Whitton, K.D. Hyde & McKenzie 2012, *Leotiomycetes* genera *incertae sedis*, one species, type: *C. tunicaerulus* Whitton, K.D. Hyde & McKenzie, asexual morph unknown, saprobes, terrestrial, Australia, see Whitton et al. (2012b; taxonomy holotype of the type: IFRD 9021, cultures and sequences are unavailable.

Callistospora Petr. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *C. gaubae* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Callome Otálora & Wedin 2014, *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *C. multipartita* (Sm.) Otálora, P.M. Jørg. & Wedin, lichenized, see Otálora et al. (2013; 2014; taxonomy, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Calloria Fr. 1836 (= *Beloniella* Rehm 1892; = *Belonopeziza* Höhn. 1917; = *Cylindrocolla* Bonord. 1851; *Callorina* Korf 1971 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Calloriaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *C. fusarioides* (Berk.) Fr., asexual morph *Cylindrocolla*, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Seifert et al. (2011; morphology of asexual morph), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are available but lacking for the type species.

Calloriopsis Syd. & P. Syd. 1917 (= *Diplothrix* Vain. 1921 *fide* Jaklitsch et al. 2016a), *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, five species, type: *C. gelatinosa* (Sacc.) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Calogaya Arup, Frödén & Søchting 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 14 species, type: *C. biatorina* (A. Massal.) Arup, Frödén & Søchting, lichenized, see Arup et al. (2013; taxonomy, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Calonectria De Not. 1867 (= *Cylindrocladium* Morgan 1892; = *Candelospora* Rea & Hawley 1912 *fide* Rossman et al. 2016a), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, type: *pyrochroa* (Desm.) Sacc., 248 species are listed in Index Fungorum (2016), type: *C. daldiniana* De Not., pathogenic to plants or isolated from soil, terrestrial, worldwide, see Lombard et al. (2010a, b, 2015a, b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), ex-epitype: CBS 749.70; epitype: of the type: CBS H-15110.

Calongea Healy, Bonito & Trappe 2009, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. prieguensis* (Mor.-Arr., J. Gómez & Calonge) Healy, Bonito & Trappe, asexual morph unknown, saprobes, from soil, terrestrial, Europe, see Healy et al. (2009b; taxonomy), holotype of the type: MA (Fungi) 33502, cultures and sequences are available.

Calongeomyces Hawksworth & Etayo 2011 (= *Calongia* D. Hawksw. & Etayo 2010 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. gibelluloides* (D. Hawksw. & Etayo) D. Hawksw. & Etayo, coelomycetous, sexual morph unknown, parasymbiont on *Cladonia*, *Flavoparmelia*, *Pertusaria*, terrestrial, southern Europe, see Hawksworth and Etayo (2011; morphology, distinction of similar lichenicolous genera), holotype: (K, (M) 164014, J. Etayo & A. Etayo), cultures and sequences are unavailable.

Calopadia Vězda 1986 (= *Crocicreomyces* Bat. & Peres 1964 [1963]; = *Cyrta* Bat. & H. Maia 1961 *fide* Species Fungorum 2017), *Pilocarpaceae*, *Lecanorales*,

Lecanoromycetes, 27 species, type: *C. fusca* (Müll. Arg.) Vězda, lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Calopadiopsis Lücking & R. Sant. 2002, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *C. tayabasensis* (Vain.) Lücking & R. Sant., lichenized, Argentina, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Calophoma Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *C. clematidina* (Thüm.) Q. Chen & L. Cai, coelomycetous, saprobes, ?pathogens, terrestrial, The Netherlands, New Zealand, Switzerland, see Chen et al. (2015b; taxonomy, phylogeny), Tibpromma et al. (2017b; new species), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: CBS H-16193, CBS 108.79.

Caloplaca Th. Fr. [nom. cons.] 1860 (see Species Fungorum 2017 for synonyms), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 350 species, type: *C. cerina* (Hedw.) Th. Fr., lichenized, see Lumbsch and Huhndorf (2010; outline), Arup et al. (2013; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Caloscypha Boud. 1885 (= *Geniculodendron* G.A. Salt 1974; = *Otidella* Sacc. 1889 *fide* Healy et al. 2016; Species Fungorum 2017), *Caloscyphaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *C. fulgens* (Pers.) Boud., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: AFTOL-ID 152.

Calosphaeria Tul. & C. Tul. 1863 (= *Calosphaeriophora* Réblová, L. Mostert, W. Gams & Crous 2004 *fide* Réblová et al. 2016c), *Calosphaeriaceae*, *Calosphaeriales*, *Sordariomycetes*, c. 30 species, type: *C. princeps* Tul. & C. Tul., asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Damm et al. (2008b; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2015a, 2016c; phylogeny, nomenclature), cultures available but lacking for the type species.

Calosphaeriopsis Petr. 1941, *Sordariomycetes*, genera *incertae sedis*, one species, type: *C. huberiana* (Kirschst.) Petr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Calosporella J. Schröt. 1897, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. innesii* (Curr.) J. Schröt., asexual morph unknown, saprobes, terrestrial, Europe, see Voglmayr and Jaklitsch (2014; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2017; placement), cultures and sequences are unavailable, ex-type and epitype: CBS 123810, WU 32161.

Calostilbe Sacc. & P. Syd. 1902 (= *Calostilbella* Höhn. 1919; = *Nectria* subgen. *Phaeonectria* Sacc. 1895; = *Phaeonectria* (Sacc.) Sacc. & Trotter 1913; = *Xenostilbum* Petr. *fide* Rossman et al. 2016a; Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. striispora* (Ellis & Everh.) Seaver, asexual morph hyphomycetous, saprobes on wood and bark, commonly in tropical regions, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2015a; phylogeny); Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), lectotype: NY, iso-lectotypes BPI 553210, 553211.

Calothyriopsis Höhn. 1919 (= *Ptychopeltis* Syd. 1927 *fide* Species Fungorum 2017), *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, two species, type: *C. conferta* (Theiss.) Höhn., saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Microthyriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Calotrichopsis Vain. 1890, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *C. insignis* Vain., lichenized, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Calvitimela Hafellner 2001, *Tephromelataceae*, *Lecanorales*, *Lecanoromycetes*, ten species, type: *C. armeniaca* (DC.) Hafellner, lichenized, see Fryday (2011; taxonomy), Bendiksby et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Calvolachnella Marinc., T.A. Duong & M.J. Wingf. 2016, *Chaetosphaeriales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. guaviyuensis* (Marinc. T.A. Duong, M.J. Wingf. & C.A. Perez) Marinc., T.A. Duong & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, Uruguay, see Hernández-Restrepo et al. (2016a; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type: PREM 60964, CBS 134695 = CMW 39055.

Calycella (Sacc.) Sacc. 1899 (= *Helotium* subgen. *Calycella* Sacc. 1889 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. gelatinosa* (Sacc.) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Europe, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Calycellina Höhn. 1918 (= *Chaetochalara* B. Sutton & Piroz. 1965; *Phialina* Höhn. 1926; = *Phialoscypha* Raitv. 1977; = *Scutoscypha* Graddon 1980; = *Setoscypha* Velen. 1934 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, c. 45 species, type: *C. punctiformis* (Grev.) Höhn., asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Seifert et al. (2011; morphology of asexual morph), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available but lacking for the type.

Calycellinopsis W.Y. Zhuang 1990, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. xishuangbanna* W.Y. Zhuang, asexual morph unknown, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Calycidium Stirt. 1877 (= *Calycidiomyces* Cif. & Tomas. 1953; = *Coniophyllum* Müll. Arg. 1892 *fide* Species Fungorum 2017), *Sphaerophoraceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *C. cuneatum* Stirt., lichenized, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Calycidiaceae*), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Calycina Nees ex Gray 1821 (= *Antinoa* Velen. 1934; = *Calycella* (Fr.) Boud., 1885; = *Cystopezizella* Svrček 1983; *Eubelonis* Clem. 1909; = *Gemmina* Raitv. 2004; = *Helotium* subgen. *Calycella* Fr. 1849; = *Malotium* Velen. 1934, nom. Nom. illegit., Art. 53.1; = *Parthenope* Velen. 1934; = *Pezizella* Fuckel 1870 [1869-70]; = *Septopezizella* Svrček 1987; = *Weinmannioscyphus* Svrček *fide* Jaklitsch et al. 2016a; Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, c. 30 species, type: *C. herbarum* (Pers.) Gray, asexual morph hyphomycetous, saprobes, cones scales, herbaceous stems and leaves, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Baral et al. (2013; genus accepted), Han et al. (2014; genus accepted), Baral and Rämä (2015; genus accepted), type in S herbarium, cultures and sequences are unavailable for the type of the type species.

Calyptra Theiss. & Syd. 1918, *Dothideomycetes* genera *incertae sedis*, five species, type: *C. cordobensis* (Speg.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Calyptronectria Speg. 1909, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *C. platensis* Speg., asexual morph unknown, saprobes, terrestrial, Argentina, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tian et al. (2015; taxonomy, phylogeny), cultures and sequences of type species are unavailable.

Calyptrozyma Boekhout & Spaay 1995, *Eurotiomycetidae*, genera *incertae sedis*, one species, type: *C. arxii* Boekhout & Spaay, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 354.92.

Camaroglobulus Speer 1986, *Ascomycota* genera *incertae sedis*, one species, type: *M. caespitosa* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Camarographium Bubák 1916, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, seven species, type: *C. stephensii* (Berk. & Broome) Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Crous et al. (2011c; new species, key), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2016b, 2017; outline, taxonomy, new species), cultures and sequences are available but lacking for the type species.

Camaropella Lar. N. Vasilyeva 1997, *Boliniaceae*, *Boliniales*, *Sordariomycetes*, two species, type: *C. pugillus* (Schwein.) Lar. N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate zone, see Huhndorf and Miller (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Untereiner et al. (2013; phylogeny), Friebes and Wendelin (2014), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Camarops P. Karst. 1873 (= *Biscogniauxia* sect. *Camarops* (P. Karst.) Lar.N. Vassiljeva et al. 1998; = *Bolinia* (Nitschke) Sacc. 1882; = *Chromendothia* Lar.N. Vassiljeva 1993; = *Hypoxylon* sect. *Bolinia* Nitschke 1867; = *Peridoxylon* Shear 1923; = *Phaeosperma* Nitschke ex Fuckel 1870 [1869-70]; = *Sarcostromella* Boedijn 1959; = *Solenoplea* Starbäck 1901 fide Species Fungorum 2017), *Boliniaceae*, *Boliniales*, *Sordariomycetes*, 20 species, type: *C. hypoxyloides* P. Karst., asexual morphs unknown, saprobes, terrestrial, worldwide, see Huhndorf and Miller (2008; new species), Lumbsch and Huhndorf (2010;

outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Camaropycnis E.K. Cash 1945, *Ascomycota* genera *incertae sedis*, one species, type: *C. libocedri* E.K. Cash, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Camarosporellum Tassi 1902, *Ascomycota* genera *incertae sedis*, one species, type: *C. nervisequum* (Tassi) Tassi, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2016b, 2017; taxonomy, outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Camarosporioides W.J. Li & K.D. Hyde 2016, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. phragmitis* W.J. Li & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Germany, see Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 16-1488, MFLUCC 13-0365.

Camarosporiopsis Abbas, B. Sutton & Ghaffar 2000, *Ascomycota* genera *incertae sedis*, one species, type: *C. capparis* (S. Ahmad) Abbas, Sutton & Ghaffar, coelomycetous, sexual morph unknown, one species, saprobes, Pakistan, see Wijayawardene et al. (2012, 2016b, 2017; taxonomy, outline), sequences are unavailable.

Camarosporium Schulzer 1870 (= *Piringa* Speg. 1911; = *Sclerotheca* Bubák & Vleugel 1917 *fide* Species Fungorum 2017), *Camarosporaceae*, *Pleosporales*, *Dothideomycetes*, more than 100 species, type: *C. quaternatum* Schulzer, coelomycetous, sexual morph cucurbitaria-like, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2012, 2014a, c, 2016b, 2017; taxonomy, phylogeny, outline), Liu et al. (2015a, taxonomy, phylogeny), Tibpromma et al. (2016e, 2017b; taxonomy, phylogeny), sequences are available for 11 species.

Camarosporula Petr. 1954 (= *Anthracostroma* Petr. 1954 *fide* Rossman et al. 2015b), *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *C. persoonii* (Henn.) Petr., asexual morph coelomycetous, saprobes, terrestrial, Australia, see Crous et al. (2011e; phylogeny), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), cultures available for the type: CBS 116258.

Camarosporulum Tassi 1902, *Ascomycota* genera *incertae sedis*, one species, type: *C. ampelopsidis* Tassi, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Camarotella Theiss. & Syd. 1915, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, three species, type: *C. astrocaryae* (Rehm) Theiss. & Syd., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Coccodiella* Hara), Lumbsch and Huhndorf (2010; did not list), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), cultures and sequences are unavailable.

Cameronia Kantvilas 2012, *Cameroniaceae*, *Baeomycetales*, *Lecanoromycetes*, two species, type: *C. pertusarioides* Kantvilas, lichenized, see Kantvilas (2012; taxonomy), Lumbsch et al. (2012; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Camillea Fr. 1849 (= *Bacillaria* Mont. 1840; *Diatrype* subgen. *Nummularoidea* Cooke & Massee 1892; = *Diatrypeopsis* Speg. 1884; = *Nummularioidea* (Cooke & Massee) Lloyd 1924; = *Xylocladium* P. Syd. ex Lindau 1900; = *Jongiella* M. Morelet 1971; = *Nummularioidea* (Cooke & Massee) Lloyd 1924 *fide* Species Fungorum 2017; Wendt et al. 2017), *Graphostromataceae*, *Xylariales*, *Sordariomycetes*, more than 48 species, type: *C. leprieurii* (Mont.) Mont., endophytes-saprobes, widespread and high in tropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; transferred to *Graphostromataceae*), cultures and sequences are available.

Campoa Speg. 1921 (= *Myxostomella* Syd. 1931 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *C. pulcherrima* Speg., asexual morph unknown, saprobes, terrestrial, South America, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Camporesia W.J. Li & K.D. Hyde 2016, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *C. sambuci* W.J. Li & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Li et al. (2016a; taxonomy, phylogeny), Wendt et al. (2017; transferred to *Xylariales* genera *incertae sedis*), holotype and ex-type: MFLU 15–3905, MFLUCC 13–0203.

Camposporidium Nawawi & Kuthub. 1988, *Ascomycota* genera *incertae sedis*, three species, type: *C. cristatum* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, aquatic, terrestrial, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Camposporium Harkn. 1884, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 18 species, type: *C. antennatum* Harkn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology, accepted as a genus in *Leptosphaeriaceae*), Wijayawardene et al. (2012, 2017; outline), Adamčík et al. (2015; new species), cultures available for the type: ICMP15321.

Camptomeriphila Crous & M.J. Wingf. 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *C. leucaenae* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type: CBS H-22884, CPC 27608.

Camptomeris Syd. 1927, *Ascomycota* genera *incertae sedis*, seven species, type: *C. calliandrae* Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Camptomyces Thaxt. 1894, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eight species, type: *C. melanopus* Thaxt., asexual morph unknown, parasitic on Staphylinidae beetles, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Camptophora Réblová & Unter. 2013, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *C. hylomeconis* (Crous, de Hoog & H.D. *Chaetothyriales* Shin) Réblová & Unter., asexual morph unknown, from living leaves of *Hylomecon vernalis*, terrestrial, South Korea, see Réblová et al. (2013; genus accepted), Madrid et al. (2016; phylogeny), holotype and ex-type of the type: CBS H-19907, CBS 113311.

Camptosphaeria Fuckel 1870, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *C. sulphurea* Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, need generic revision.

Campylocarpon Halleen, Schroers & Crous 2004, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. fasciculare* Schroers, Halleen & Crous, hyphomycetous, sexual morph unknown, pathogenic on *Vitis vinifera*, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type of the type: CBS 6590, CBS 112613 = CPC 3970.

Campylospora Ranzoni. 1953, *Hypocreomycetidae* genera *incertae sedis*, five species, type: *C. chaetocladia* Ranzoni, hyphomycetous, sexual morph unknown, saprobes, endophytes, aquatic, Asia, Europe, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Marvanová and Laichmanová (2014; new species), cultures and sequences are available for authentic strains CCM F–17708, CCM F–10610, CCM F–10710, CCM F–10810.

Campylothelium Müll. Arg. 1883, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, six species, type: *C. puiggarii* Müll. Arg., lichenized, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Nelsen et al. (2014b; taxonomy), cultures available for the type: MPN268.

Canalisporium Nawawi & Kuthub 1989 (= *Ascothailandia* Sri-indr. et al. 2010 *fide* Réblová et al. 2016c), *Savoryellaceae*, *Savoryellales*, *Sordariomycetes*, twelve species, type: *C. caribense* (Hol.-Jech. & Mercado) Nawawi & Kuthub., hyphomycetous, freshwater habitats except *C. microsporum* and *C. nigrum*, Africa, see Seifert et al. (2011; morphology), Sri-Indrasutdhi et al. (2010; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), Réblová et al. (2016c; nomenclature) cultures and sequences available.

Canariomyces Arx 1984, *Microascaceae*, *Microascales*, *Sordariomycetes*, one species, type: *C. notabilis* Arx, asexual morph unknown, saprobes, terrestrial, Canary Islands, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype of the type: MUCL 44677, a sequence available but unpublished.

Canavirgella W. Merr., N.G. Wenner & Dreisbach 1996, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *C. banfieldii* W. Merr., N.G. Wenner & Dreisbach, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cancellidium Tubaki 1975, *Sordariales* genera *incertae sedis*, two species, type: *C. applanatum* Tubaki, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, Europe, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Zhao et al. (2013a; China), Pratibha et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Candelabrum Beverw. 1951 (= *Dionysia* G. Arnaud *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, seven species, type: *C. spinulosum* Beverw, hyphomycetous, sexual morph unknown, on decaying leaves in water, aquatic, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Candelaria A. Massal. 1852, *Candelariaceae*, *Candelariales*, *Lecanoromycetes*, seven species, type: *C. concolor* (Dicks.) Arnold, lichenized, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Candelariella Müll. Arg. 1894 (= *Caloplacopsis* (Zahlbr.) B. de Lesd. 1932; = *Candelariella* sect. *Caloplacopsis* Zahlbr. 1926; = *Candelariellomyces* E.A. Thomas ex Cif. & Tomas. 1953 [1952], = *Candelariellopsis* Werner 1936; = *Eklundia* C.W. Dodge 1968; = *Pleochroma* Clem. 1909 *fide* Species Fungorum 2017), *Candelariaceae*, *Candelariales*, *Lecanoromycetes*, 50 species; type: *C. vitellina* (Hoffm.) Müll. Arg., lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Candelina Poelt 1974, *Candelariaceae*, *Candelariales*, *Lecanoromycetes*, three species, type: *C. mexicana* (B. de Lesd.) Poelt, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Candelosynnema K.D. Hyde & Seifert 1992, *Ascomycota* genera *incertae sedis*, one species, type: *C. ranunculosporum* K.D. Hyde & Seifert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Candida Berkhout 1923 (= *Lodderomyces* Van der Walt 1966), *Saccharomycetales*, genera *incertae sedis* *Saccharomycetes*, 40 species, type: *C. tropicalis* var. *tropicalis* (Castell.) Berkhout, asexual reproduction by multilateral budding and formation of pseudohyphae and true hyphae, saprophytic, others pathogens or opportunistic pathogens of humans and animals, terrestrial, worldwide, phylogenetic analysis of gene sequences shows that there are about 40 species in the *Candida tropicalis* clade, the type species of the genus *Candida*, which also includes *C. albicans* and *Lodderomyces elongisporus*. Prior to DNA sequence analysis and changes in the Code of nomenclature for fungi (Melbourne Code), approximately 400 described anamorphic species were included in the genus *Candida*.

Cannonia Joanne E. Taylor & K.D. Hyde 1999, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. australis* (Speg.) Joanne E. Taylor & K.D. Hyde, asexual morph unknown, saprobes, Argentina, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wendt et al. (2017; transferred to *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Canoparmelia Elix & Hale 1986, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 40 species; type: *C. texana* (Tuck.) Elix & Hale, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Leonardo et al. (2011; indicator for environmental pollution), Kirk et al. (2013; genus accepted), Kirika et al. (2016; phylogeny and circumscription), Lücking et al. (2017a; classification), sequences are available.

Cantharomyces Thaxt. 1890, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 29 species, type: *C. bledii* Thaxt., asexual morph unknown, biotrophic, hosts are Dryopidae, Hydrophilidae, Limnichidae, and Staphylinidae (Coleoptera), widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters and De Kesel (2013; morphology), cultures and sequences are unavailable.

Capillataspora K.D. Hyde 1989, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. corticola* K.D. Hyde, asexual morph unknown, saprobes, collected from mangroves, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capillipes R. Sant. 1956, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. cavorum* R. Sant., asexual morph unknown, saprobes, terrestrial, Lapland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capillistichus Santam. 2004, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *C. tenellus* Santam., asexual morph unknown, parasitic on Hydrophilidae beetles, aquatic, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capitofimbria L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. compacta* (R.F. Castañeda et al.) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: CBS-H6584a, CBS 111739.

Capitorostrum Bat. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *C. asteridiellae* Bat., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, Papua New Guinea, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capitotricha (Raitv.) Baral 1985, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *C. bicolor* (Bull.) Baral, sexual morph unknown, saprobes, UK, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Hyaloscyphaceae*), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), Index Fungorum (2017; treated as a synonym of *Lachnum* Retz.), cultures and sequences are unavailable.

Capnobotryella Sugiy. 1987, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *C. renispora* Sugiy., hyphomycetous, sexual morph unknown, saprobes, Asia, Europe, North America, see Seifert et al. (2011; morphology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 214.90.

Capnobotrys S. Hughes 1970, *Metacapnodiaceae*, *Capnodiales*, *Dothideomycetes*, c. 20 species, type: *C. neesii* S. Hughes, hyphomycetous, sexual morph unknown, sooty mould on living plants, terrestrial, Asia, Australasia, Europe, North America, South America, North America, see Seifert et al. (2011; morphology), Hughes and Seifert (2012; new species), Wijayawardene et al. (2012, 2017; outline), Hyde et al. (2013; accepted as a genus in *Metacapnodiaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capnocheirides J.L. Crane & S. Hughes 1982, *Ascomycota* genera *incertae sedis*, one species, type: *C. rhododendri* (Kunze) J.L. Crane & S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Capnodiastrum Speg. 1886, *Ascomycota* genera *incertae sedis*, one species, type: *C. guaraniticum* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable thus placed in *Ascomycota incertae sedis* in here.

Capnodium Mont. 1849 (= *Polychaeton* (Pers.) Lév. 1846; = *Fumagospora* G. Arnaud 1911 *fide* Chomnunti et al. 2011; Hyde et al. 2013; Wijayawardene et al. 2014c), *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *C. citri* Berk. & Desm., asexual morph coelomycetous, sooty moulds, worldwide, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2011, 2014; taxonomy, nomenclature), Hyde et al. (2013; accepted as a genus in *Capnodiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Hongsanan et al. (2015c, 2016c; new species, evolution), cultures and sequences are available.

Capnofrasera S. Hughes 2003, *Antennulariellaceae*, *Capnodiales*, Dothideomycetes, one species, type: *C. dendryphioides* S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Capnokyma S. Hughes 1975, *Euantennariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *C. corticola* S. Hughes, asexual morph unknown, saprobes, terrestrial, Australasia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Euantennariaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Caprettia Bat. & H. Maia 1965 (= *Porinula* Vězda 1975 *fide* Species Fungorum 2017), *Monoblastiaceae*, *Monoblastiales*, *Dothideomycetes*, eight species, type: *C. amazonensis* Bat. & H. Maia, asexual morph coelomycetous, saprobes, thallus epiphyllous, worldwide, see Nelsen et al. (2009, 2011b; taxonomy), Yeshitela et al. (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Capricola Velen. 1947, *Helotiales* genera *incertae sedis*, one species, type: *C. fuscidula* Velen., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Capronia Sacc. 1883 (= *Berlesiella* Sacc. 1888; = *Caproniella* Berl. 1899; = *Dictyotrichiella* Munk 1953; = *Didymotrichiella* Munk 1953; = *Herpotrichiella* Petr. 1914; = *Melanostigma* Kirschst. 1939; = *Polytrichiella* M.E. Barr 1972 *fide* Species Fungorum 2017), *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, c. 60 species, type: *C. sexdecimspora* (Cooke) Sacc., asexual morphs hyphomycetous, parasitic (on fungi or lichens) or saprobes, terrestrial, worldwide, see Badali et al. (2008; taxonomy), Halici et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Untereiner et al. (2011; phylogeny), Friebes (2012; morphology), Diederich et al.

(2013; phylogeny), Kirk et al. (2013; genus accepted), Gueidan et al. (2014a; phylogeny), sequences are available.

Caproniella Berl. 1896, *Sordariomycetes*, genera *incertae sedis*, two species, type: *C. pleiospora* (Mouton) Berl., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Caproventuria U. Braun 1998, *Venturiaceae*, *Venturiales*, *Dothideomycetes*, two species, type: *C. hanliniana* (U. Braun & Feiler) U. Braun, asexual morph hyphomycetous, saprobes, soil-borne, Africa, Asia, Europe, New Zealand, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; phylogeny, accepted as a genus in *Venturiaceae*), Hyde et al. (2013; accepted as a genus in *Venturiaceae*), Wijayawardene et al. (2014c; outline), strains of the type: ATCC 9601, IFM 52023, holotype of type: HAL 7623 F.

Capsicumyces Gamundí, Aramb. & Giaiotti 1979, *Ascomycota* genera *incertae sedis*, one species, type: *C. delicatus* Gamundí, Aramb. & Giaiotti, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capsulospora K.D. Hyde 1996, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, nine species, type: *C. frondicola* K.D. Hyde, asexual morph unknown, sexual morph ascomycetes, saprobes on dead branches, Vanuatu, Brunei, Indonesia, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Capulatispora Thambug., Kaz. Tanaka & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. sagittiformis* (Kaz. Tanaka & Hosoya) Thambug. & Hyde, asexual morph unknown, saprobes, terrestrial, Japan, see Thambugala et al. (2015b; morphology, phylogeny), holotype of type: TNS-F-12453, ex-type strains of type: JCM 15100.

Carassea S. Stenroos 2002, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, one species; type: *C. connexa* (Vain.) S. Stenroos, lichenized, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Carbacanthographis Staiger & Kalb 2002, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 28 species, type: *C. chionophora* (Redinger) Staiger & Kalb, lichenized (*Trenthepohlia*), terrestrial (mainly corticolous), tropical, see Tripp et al. (2010; new species), Sharma et al. (2010; key), Rivas Plata et al. (2013; DNA, phylogeny), Lumbsch et al. (2014a, b; tribe *Wirthiotremateae*), Sharma and Khadilkar (2011; new species), Kukwa et al. (2013; new species), sequences are available.

Carbomyces Gilkey 1954, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, three species; type: *C. emergens* Gilkey, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Moreno et al. (2012b; re-visited, DNA, phylogeny), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as a genus in *Pezizaceae* and *Carbomycetaceae* as a synonym of *Pezizaceae*), sequences are available for the voucher AH 39344 of the type species.

Carbonicola Bendiksby & Timdal 2013, *Carbonicolaceae*, *Lecanorales*, *Lecanoromycetes*, *Ascomycota*; three species; type: *C. anthracophila* (Nyl.) Bendiksby & Timdal; lichenized; temperate northern hemisphere, Australia, see Bendiksby and Timdal (2013; taxonomy), Lücking et al. (2017a; classification), holotype: H-NYL-20375 p.p. (lectotype by Timdal 1984), sequences are available.

Carbosphaerella I. Schmidt 1969, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *C. pleosporoides* Schmidt, asexual morph unknown, saprobes, marine, Denmark, Germany, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), cultures and sequences are available.

Carestiella Bres. 1897, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *C. socia* Bres., coelomycetous, sexual morph unknown, saprobes, cosmopolitan, see Baloch et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Caribaeomyces Cif. 1962, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *C. tetrasporus* (Toro) Cif., saprobes, terrestrial, Dominican Republic, see Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Microthyriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Carinispora K.D. Hyde 1992, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *C. nypae* K.D. Hyde, saprobes, marine habitat (collected from palm *Nypa fruticans*), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available, holotype: BCC 36316.

Carnegieispora Etayo 2009, *Ascomycota* genera *incertae sedis*, one species, type: *C. rimeliae* Etayo & Berger, coelomycetous, sexual morph unknown, parasymbiont on *Parmotrema*, terrestrial, Azores, see Etayo and Berger (2009; morphology, distinction of

similar lichenicolous genera), Wijayawardene et al. (2016b; morphology), holotype: LI, F. Berger 18380, cultures and sequences are unavailable.

Carnia Bat. 1960, *Ascomycota* genera *incertae sedis*, one species, type: *C. tabebuiae* Bat. & Peres, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Carpophoromyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *C. cybocephali* Thaxt., asexual morph unknown, parasitic on Cybocephalidae beetles, terrestrial, Asia, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Carrismyces R.F. Castañeda & Heredia 2000, *Ascomycota* genera *incertae sedis*, one species, type: *C. proliferatus* R.F. Castañeda & Heredia, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Mexico, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: XAL CB736, cultures and sequences are unavailable, compare with *Bioconosporium*, *Oncopodiella*, *Pseudopetrakia* and *Septosporium*.

Caryophylloseptoria Verkley, Quaedvl. & Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *C. lychnidis* (Desm.) Verkley, Quaedvl. & Crous, coelomycetous, sexual morph unknown, plant pathogenic, see Verkley et al. (2013; morphology, phylogeny), Wijayawardene et al. (2014c, 2017; outline), reference material CBS H-21161, living cultures CBS 109098, 109102.

Caryospora De Not. 1855, *Caryosporaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *C. putaminum* (Schwein.) De Not., saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Zopfiaceae*), Hyde et al. (2013; accepted as a genus in *Zopfiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Zopfiaceae*), Zhao and Zhao (2012; new species, China), Ariyawansa et al. (2015a; new species, introduced *Caryosporaceae*), cultures and sequences are available but lacking for the type species.

Caryosporella Kohlm. 1985, *Dothideomycetes*, genera *incertae sedis*, one species, type: *C. rhizophorae* Kohlm., asexual morph unknown, saprobes, marine aquatic, America, see Jones et al. (2009b, 2015; classification), Suetrong et al. (2009; phylogeny, morphology), Besitulo et al. (2010; diversity), Lumbsch and Huhndorf (2010; outline), Zainuddin et al. (2010; antimicrobial activities), Lee et al. (2012; checklist), Zhang et al. (2012e; morphology), Hyde et al. (2013; morphology, outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Samón-Legrá et al. (2014; diversity), Tian et al. (2015; morphology; nomenclature; phylogeny), cultures available for the type: JK 5302A.

Casaresia Gonz. Frag. 1920 (= *Ankistrocladium* Perrott 1960 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. sphagnorum* Gonz. Frag, hyphomycetous, sexual morph unknown, aquatic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cashiella Petr. 1951, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *C. atra* Petr., asexual morph unknown, saprobes, terrestrial, North America, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Castanedaea W.A. Baker & Partr. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *C. minor* (R.F. Castañeda) W.A. Baker & Partr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Castanediella M. Hern.-Restr., Crous & M.J. Wingf. 2015, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, nine species, type: *C. acaciae* Crous, M. Hern.-Restr. & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Crous et al. (2015d, 2016a, b; taxonomy), Hernández-Restrepo et al. (2016a; new species; phylogeny), holotype and ex-type: CBS H-22225, CPC 24869 = CBS 139896.

Castanedomyces Cano, L.B. Pitarch & Guarro 2002, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *C. australiensis* Cano, L.B. Pitarch & Guarro., asexual morph unknown, saprobes, terrestrial, Australia, see Liang et al. (2009a; phylogeny), cultures available for the type: IMI 370015.

Catabotrys Theiss. & Syd. 1915 (= *Pseudonectriella* Petr. 1959 *fide* Species Fungorum 2017), *Catabotrydaceae*, *Amplistromatales*, *Sordariomycetes*, one species, type: *C. palmarum* (Pat.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Catapyrenium Flot. 1850 (= *Catapyrenium* Flot. 1849; = *Endopyrenium* Flot. 1855; = *Involucrocarpon* Servít 1953 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, six species, type: *C. cinereum* (Pers.) Körb., lichenized, see Lumbsch and Huhndorf (2010; outline), Prieto et al. (2010c; species in the Iberian Peninsula and the Balearic Islands), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Cataractispora K.D. Hyde, S.W. Wong & E.B.G. Jones 1999, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, five species, type: *C. aquatica* K.D. Hyde, S.W. Wong & E.B.G. Jones, saprobes, aquatic, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: HKU (M) 5239, cultures and sequences are available.

Catarraphia A. Massal. 1860 (= *Cyclographa* Vain. 1921 *fide* Species Fungorum 2017), *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *C. dictyoplaca* (Mont. & Bosch) A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Catarrhospora Brusse 1994, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, two species, type: *C. mira* Brusse, lichenized, South Africa, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Catenarina Søchting, Søgaard, Arup, Elvebakk & Elix 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *C. desolata* Søchting, Søgaard & Elvebakk, lichenized, see Søchting et al. (2014b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Catenocuneiphora Matsush. 2003, *Ascomycota* genera *incertae sedis*, one species, type: *C. mucosa* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Catenophoropsis Nag Raj & W.B. Kendr. 1988, *Ascomycota* genera *incertae sedis*, one species, type: *C. eucalypticola* Nag Raj & W.B. Kendr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Catenosubulispora Matsush. 1971, *Ascomycota* genera *incertae sedis*, one species, type: *C. honiaraensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South East Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Catenosynnema Kodsueb, K.D. Hyde & W.H. Ho 2007, *Ascomycota* genera *incertae sedis*, one species, type: *C. micheliae* Kodsueb, K.D. Hyde & W.H. Ho, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Thailand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: PDD 87914, cultures and sequences are unavailable.

Catenularia Grove 1886, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, type: *C. simplex* Grove, hyphomycetous, sexual morph unknown, saprobes, terrestrial (wood), worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Catenulomyces Egidi & de Hoog 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *C. convolutus* Egidi & Quaedvl., hyphomycetous, sexual morph unknown, rock-inhabiting, Spain, see Egidi et al. (2014; taxonomy, phylogeny), Wijayawardene et al. (2014c, 2017; outline, accepted as *Capnodiales* genera *incertae sedis*), ex-type cultures of the type species CBS 118609 = TRN9.

Catenulostroma Crous & U. Braun 2007, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *C. protearum* (Crous & M.E. Palm) Crous & U. Braun, hyphomycetous, sexual morph ?teratosphaeria-like, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Teratosphaeriaceae*), Quaedvlieg et al. (2014; phylogeny, introduced new genus *Neocatenulostroma*), Hernández-Restrepo et al. (2017; new species, phylogeny), holotype and ex-type of the type: BPI 1107938, CPC 18276.

Catillaria A. Massal. 1852 (= *Catillaria* A. Massal. ex R. Sant. 1952; = *Microlecia* M. Choisy 1949; = *Ulocodium* A. Massal. 1855 *fide* Species Fungorum 2017), *Catillariaceae*, *Lecanorales*, *Lecanoromycetes*, 150 species, type: *C. chalybeia* (Borrer) A. Massal., lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Catillochroma Kalb 2007, Ramalinaceae, Lecanorales, *Lecanoromycetes*, seven species, type: *C. endochroma* (Fée) Kalb, lichenized, see Lendemer (2010c; re-visit), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Miądlikowska et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Catinaria Vain. [nom. cons.] 1922 (= *Biatorina* A. Massal. 1852 *fide* Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *C. atropurpurea* (Schaer.) Vězda & Poelt, lichenized, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Catinella Boud. 1907, *Dothideomycetes* genera *incertae sedis*, one or two species, type: *C. olivacea* (Batsch) Boud., asexual morph unknown, saprobes or parasitic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence are available only for the type specie.

Catinopeltis Bat. & C.A.A. Costa 1957, *Ascomycota* genera *incertae sedis*, one species, type: *C. recifensis* Bat. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Catolechia Flot. 1850 (= *Dimaura* Norman 1853 [1852]; = *Xanthopsis* Acloque 1893 *fide* Species Fungorum 2017), *Rhizocarpaceae*, *Rhizocarpales*, *Lecanoromycetes*, one species, type: *C. wahlenbergii* (Ach.) Flot., lichenized, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), type specimen UPS-ACH-L-244 (isotype), sequences are available.

Catulus Malloch & Rogerson 1978, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. aquilonius* Malloch & Rogerson, asexual morph unknown, saprobes, fungicolous, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Caudatispora J. Fröhl. & K.D. Hyde 1995, *Chaetosphaeriales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *C. palmicola* J. Fröhl. & K.D. Hyde, asexual morph unknown, terrestrial, saprobes, America (tropical), see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariomycetidae*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available but lacking for the type species.

Caudella Syd. & P. Syd. 1916, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, two species, type: *C. oligotricha* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline) cultures and sequences are unavailable.

Caudospora Starbäck 1889, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. taleola* (Fr.) Starbäck, asexual morph unknown, terrestrial, saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cavaraella Speg. 1921, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *C. micraspis* (Berk. & M.A. Curtis) Speg., asexual morph unknown, saprobes, terrestrial, Cuba, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cavimalum Yoshim. Doi, Dargan & K.S. Thind 1977, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. indicum* Yoshim. Doi, Dargan & K.S. Thind, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cazia Trappe 1989, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. flexiascus* Trappe, asexual morph unknown, from soil, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available for voucher SOC 469 of the type species.

Cecidiomyces U. Braun & Zhurb. 2012, *Ascomycota* genera *incertae sedis*, one species, type: *C. santessonii* U. Braun & Zhurb, hyphomycetous, sexual morph unknown, terrestrial, lichenicolous, Australia, see Zhurbenko and Braun (2012; taxonomy), Wijayawardene et al. (2017; outline), holotype of type: UPS F-552770, cultures and sequences are unavailable.

Cecidioskyttea Etayo 2004, ?*Lecanoromycetes* genera *incertae sedis*, one species, type: *C. osorioi* Etayo, asexual morph coelomycetous, sexual morph stromatic and hairy and spores simples, parasymbiont on macrolichens belonging to *Parmeliaceae*, South America, see Suija et al. (2015c; taxonomy), cultures and sequences are unavailable, holotype of the type: Hb. Osorio, H.S. Osorio & G. Geymonat 9639a.

Cecidonia Triebel & Rambold 1988, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, two species, type: *C. umbonella* (Nyl.) Triebel & Rambold, asexual morph unknown, lichenicolous, Europe, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Ceeveesubramaniomyces Pratibha, K.D. Hyde & Bhat 2005, *Ascomycota* genera *incertae sedis*, one species, type: *C. litseae* Pratibha, K.D. Hyde & Bhat 2005, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: GUBH P 198, cultures and sequences are unavailable.

Cejpia Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *C. coerulea* Velen., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013;

genus accepted), cultures and sequences are available but lacking for the type.

Celerioriella Crous 2015, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, three species, type: *C. dura* (Damm & Crous) Crous, coelomycetous, sexual morph unknown, in necrotic wood of *Prunus* spp., pathogens, terrestrial, South Africa, see Damm et al. (2010b as *Phaeomoniella dura* Damm & Crous, morphology), Crous et al. (2015d, 2016a; phylogeny), holotype and ex-type: CBS H-19999, CBS 120882.

Celoporthe Nakab., Gryzenh., Jol. Roux & M.J. Wingf. 2006, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *C. dispersa* Nakab., Gryzenh., Jol. Roux & M.J. Wingf., asexual morph coelomycetous, pathogenic, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Chen et al. (2011; species from *Eucalyptus* and *Syzygium* trees in China and Indonesia), Crous et al. (2012d; phylogeny), Vermeulen et al. (2013; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype and ex-epitype strain of the type: PREM 58896, CMW 9976.

Celothelium A. Massal. 1860, *Celotheliaceae*, *Phaeomoniellales*, *Eurotiomycetes*, eight species, type: *C. socialis* (Zenker) A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Gueidan et al. (2014b; taxonomy, DNA), Chen et al. (2015a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Celtidia J.D. Janse 1897, *Zopfiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. duplicispora* J.D. Janse, asexual morph unknown, marine habitat (root nodules of *Celtis* in Java), see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Zopfiaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cenangiopsis Rehm 1912 (= *Pyrenopezizopsis* Höhn. 1917 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *C. quercicola* (Romell) Rehm, asexual morph unknown, saprobes, terrestrial, China, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures available for the type: KL174.

Cenangium Fr. 1818 (= *Cenangina* Höhn. 1909; = *Cenangium* trib. Clithris Fr. 1822; = *Clithris* (Fr.) Bonord. 1851 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, c. 30 species, type: *C. ferruginosum* Fr., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures available for the type: KL390.

Cenangiumella J. Fröhl. & K.D. Hyde 2000, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. rattanicola* J. Fröhl. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Brunei, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Cenococcum Moug. & Fr. 1829, *Gloniaceae*, *Mytilinidiales*, *Dothideomycetes*, nine species, type: *C. geophilum* Fr., coelomycetous, sexual morphs unknown, ectomycorrhizal, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as in *Gloniaceae*), Kirk et al. (2013; genus accepted), Peter et al. (2016; DNA, ectomycorrhizal), cultures and sequences are available.

Cenozosia A. Massal. 1854, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. inanis* (Mont.) A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences unavailable.

Cephaliophora Thaxt. 1903 (= *Cephalomyces* Bainier 1907 *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, four species, type: *C. tropica* Thaxt., hyphomycetous, sexual morph unknown, saprobes, on dung, soil, terrestrial, pantropical, temperate, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cephaloascus Hanawa 1920 (= *Ascocybe* D.E. Wells 1954; = *Aureomyces* Ruokola & Salonen 1970 *fide* Species Fungorum 2017), *Cephaloascaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *C. dispersa* Nakab., Gryzenh., Jol. Roux & M.J. Wingf., asexual reproduction by budding and blastoconidia, saprophytic, although one strain of *C. fragrans* was isolated from a human ear, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kurtzman and Robnett (2013b; DNA, phylogeny), cultures and sequences are available.

Cephalophysis (Hertel) H. Kilias 1985 (= *Lecidea* subgen. *Cephalophysis* Hertel 1967 *fide* Species Fungorum 2017), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *C. leucospila* (Anzi) H. Kilias & Scheid., asexual morph unknown, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Arup et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Cephalotheca Fuckel 1871 (= *Aposphaeriopsis* Died. 1913; = *Carothecis* Clem. 1931; = *Crepinula* Kuntze 1891; *Erythrosphaera* Sorokīn 1871 *fide* Species Fungorum 2017), *Cephalothecaceae*, *Sordariomycetes* families *incertae sedis*, six species, type: *C. sulfurea* Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide,

see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Cephalotrichiella Crous 2014, *Microascales*, genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. penicillata* Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Netherlands, see Crous et al. (2014c; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype and ex-type: CBS H-21725, CPC 23865.

Cephalotrichum Link 1809 (= *Berkeleyna* Kuntze 1898; = *Capnostysanus* Speg. 1918; = *Doratomyces* Corda 1829; = *Stelechotrichum* Ritgen 1831; = *Stysanopsis* Ferraris 1909; = *Stysanus* Corda 1837; = *Synpenicillium* Costantin 1888; = *Trichurus* Clem. 1896 *fide* Seifert et al. 2011; Species Fungorum 2017), *Microascaceae*, *Microascales*, *Sordariomycetes*, 31 species, type: *C. stemonitis* (Pers.) Nees, hyphomycetous, sexual morph unknown, saprobes, soil, dung terrestrial, worldwide, see Jiang et al. (2011; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), de Beer et al. (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Sandoval-Denis et al. (2016a; new species), cultures and sequences are available.

Ceramoclasteropsis Bat. & Cavalc. 1962, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. coumae* Bat. & Cavalc., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Capnodiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ceramothyrium Bat. & H. Maia 1956, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, 34 species, type: *C. paiveae* Bat. & H. Maia, asexual morph hyphomycetous, *Stanhughesia* Constant., epiphytic, epiphyllous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2012b, 2014; morphology, phylogeny), Kirk et al. (2013; genus accepted), Zeng et al. (2016; morphology, phylogeny), cultures and sequences of type species are unavailable.

Ceratocarpia Rolland 1896, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *C. cactorum* Rolland, asexual morph unknown, saprobes, terrestrial, America, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tian et al. (2014; morphology; nomenclature), cultures and sequences are unavailable.

Ceratocladium Corda 1839, *Ascomycota* genera *incertae sedis*, two species, type: *C. microspermum* Corda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceratocystiopsis H.P. Upadhyay & W.B. Kendr. 1975, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, eleven species, type: *C. minuta* (Siemaszko) H.P. Upadhyay & W.B. Kendr., sexual morph unknown, saprobes, terrestrial, worldwide, see Plattner et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Ceratocystis Ellis & Halst. 1890 (= *Chaetonaemosphaera* Schwarzman 1968); = *Milowia* Massee 1884; = *Mycorhynchella* Höhn. 1918; = *Rostrella* Fabre 1879 [1878]; = *Rostrella* Zimm. 1900 *fide* Species Fungorum 2017), *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, c. 70 species, type: *C. fimbriata* Ellis & Halst., asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), van Wyk et al. (2009, 2010, 2011; new species), Kajitani and Masuya (2011; new species, pathogens), Tarigan et al. (2011; new species, Indonesia), Nkuekam et al. (2012; new species), Chen et al. (2013a; species associated with Eucalyptus, China), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Crous et al. (2015d; new species, phylogeny), cultures and sequences are available.

Ceratolenta Réblová 2013, *Sordariomycetidae* genera *incertae sedis*, *Sordariomycetes*, eight species, type: *C. caudata* Réblová, asexual morph unknown, saprobes, Europe, see Réblová et al. (2013; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype and ex-type cultures available for the type: PRM 899854, CBS 125234.

Ceratomyces Thaxt., 1892, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 32 species, type: *C. mirabilis* Thaxt., parasitic on Hydrophilidae and Staphylinidae beetles, terrestrial and aquatic, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence is available for the type: AF431764 (SSU).

Ceratophacidium J. Reid & Piroz. 1966, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *C. aristosporum* (Bonar) J. Reid & Piroz., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceratophoma Höhn. 1917, *Ascomycota* genera *incertae sedis*, one species, type: *C. rostrata* (Fuckel) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceratophorum Sacc. 1880, *Ascomycota* genera *incertae sedis*, two species, type: *C. helicosporium* (Sacc.) Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceratoporthe Petr. 1925, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. didymospora* Petr., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Ceratopycnis Höhn. 1915 (= *Rhynchophorus* Hollós 1926 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *C. clematidis* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy, new species), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceratospermopsis Bat. 1951, *Ascomycota* genera *incertae sedis*, two species, type: need typification data, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae*), cultures and sequences are available but lacking for the type species.

Ceratosphaerella Huhndorf, Greif, Mugambi & A.N. Mill. 2008, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *C. castillensis* (C.L. Sm.) Huhndorf, Greif, Mugambi & A.N. Mill., asexual morph hyphomycetous, saprobes, terrestrial, Costa Rica, Nicaragua, Puerto Rico, see Huhndorf et al. (2008; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), ex-type culture of type: SMH1865.

Ceratosphaeria Niessl 1876, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, twelve species, type: *C. lampadophora* (Berk. & Broome), asexual morph harpophora-like, saprobes, terrestrial, worldwide, see Huhndorf et al. (2008; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), culture available for type: CBS 117555.

Ceratosporella Höhn. 1923, *Ascomycota* genera *incertae sedis*, 20 species (14 valid taxa as per Monteiro and Gusmao 2014), type: *C. bicornis* Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Monteiro and Gusmao (2014; key to species), sequence available but lacking for the type species.

Ceratosporium Schwein. 1832, *Ascomycota* genera *incertae sedis*, c. 14 species, type: *C. fuscescens* Schwein, widespread, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus not accepted), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Ceratostomella Sacc. 1878 (= *Cerastomis* Clem. 1931; = *Rhynchophoma* P. Karst. 1884 *fide* Species Fungorum 2017), *Sordariomycetidae* genera *incertae sedis*, *Sordariomycetes*, 18 species, type: need typification, asexual morph unknown, saprobes, terrestrial, temperate, see Réblová and Štěpánek (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Cercidospora Körb. 1865 (= *Neonorrlinia* Syd. 1923; = *Norrlinia* Vain. 1921; = *Pleosphaeropsis* Vain. 1921; = *Prolisea* Clem. 1931; = *Vainiona* Werner 1943 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, more than 100 species, type: *C. ulothii* Körb., on lichens, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Cercophora Fuckel 1870 (= *Bovilla* Sacc. 1883; = *Heteronectria* Penz. & Sacc. 1898 [1897]; = *Lasiosordaria* Chenant. 1919; = *Lasiosordariopsis* Chenant. 1919 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, 51 species, type: *C. mirabilis* Fuckel, asexual morph unknown, saprobes, terrestrial, Europe, see Chang et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Catania et al. (2011; new species), Kirk et al. (2013; genus accepted), Kruys et al. (2015; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Crous et al. (2016a, b; new species), Dai et al. (2017; new species, phylogeny), cultures and sequences are available.

Cercosperma G. Arnaud ex B. Sutton & Hodges 1983, *Ascomycota* genera *incertae sedis*, two species, type: *C. arnaudii* B. Sutton & Hodges, hyphomycetous, sexual morph unknown, saprobes, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Cercospora Fresen. 1863 (= *Cercosporina* Speg. 1911; = *Virgasporium* Cooke 1875 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, about 3000 described species (c. 700 accepted species), and 357 orthographic variants (MycoBank), type: *C. apii* Fresen., hyphomycetous, saprobes, plant pathogens,

terrestrial, worldwide, see Groenewald et al. (2008, 2013; sexual reproduction, phylogeny), To-Anun et al. (2010, 2011; phylogeny, key), Hesami et al. (2011; phylogeny, new species), Seifert et al. (2011; morphology), Phengsintham et al. (2013; species in Laos), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Wijayawardene et al. (2014c, 2017; outline), Bakhshi et al. (2015a, b; phylogeny), Nguanhom et al. (2015; phylogeny), Braun and Crous (2016; nomenclature), sequences are available for most of the species, holotype: *Fungi rhen. 117*.

Cercosporella Sacc. 1880, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 40 species, type: *C. cana* (Sacc.) Sacc., hyphomyceteous, sexual morph mycosphaerella-like, plant pathogen, terrestrial, worldwide, see Kirschner (2009; differentiation from *Ramularia*), Seifert et al. (2011; morphology), Braun (2013a; taxonomy), Braun and Urtiaga (2013; new species), Braun et al. (2015; new species, key), Crous et al. (2014c; new species), Machado et al. (2012; pathology), Zhang et al. (2013b; secondary metabolites), Videira et al. (2016; morphology, phylogeny), lectotype of type: Sacc., Mycoth. Ven. 593 (K), non-European reference cultures CPC 19492, CPC 11461, CBS 113304.

Cercosporidium Earle 1901, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 70 species, of which five are confirmed based on DNA, type: *C. euphorbiae* Tracy & Earle, hyphomycetous, sexual morph unknown, plant pathogenic, see Braun et al. (2013; morphology), Videira et al. (2017; morphology, phylogeny), resurrect the genus, and designate an epitype.

Cerillum Clem. 1931, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. paradoxa* (Har. & Pat.) Clem., terrestrial, saprobes, see Wendt et al. (2017; resurrected the genus in *Xylariales*), cultures and sequences are available.

Cerion Massee 1901, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *C. coccineum* Massee & Rodway, asexual morph unknown, saprobes, terrestrial, Australia, America (tropical), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceriophora Höhn. 1919, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type species: *C. palustris* (Sacc.) Höhn., Europe, doubtful genus, see Kirk et al. (2008; genus accepted), Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ceriospora Niessl 1876 (= *Ceriophora* Höhn. 1919; = *Hindersonia* Moug. & Nestl. ex J. Schröt. 1897 [1908] *fide* Species Fungorum 2017), *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, 18 species, type species: *C. dubyi* Niessl., doubtful genus, see Kirk et al. (2008; 2013), Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b; outline), cultures and sequences are unavailable.

Ceriosporopsis Barghoon & Linder 1944, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, four species, type: *C. halima* Linder, asexual morph not unknown, saprobes, marine, worldwide, see Jones et al. (2009b, 2015; outline, phylogeny), Sakayaroj et al. (2011a; new species, phylogeny, however this species is invalid *fide* Index Fungorum 2017), Abdel-Wahab et al. 2017; new species), sequence data available for *C. halima* (BCC15553).

Cerodothis Muthappa 1969, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. aurea* Muthappa, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cerothallia Arup, Frödén & Søchting 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, four species, type: *C. luteoalba* (Turner) Arup, Frödén & Søchting, lichenized, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Cesariella W. Rossi & Santam. 2008, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *C. graeca* W. Rossi & Santam., asexual morph unknown, parasitic on Carabidae beetles, terrestrial, Europe, Rossi and Santamaría (2008; taxonomy, did not explicitly state family level placement, but suggested very close relationship to *Laboulbenia*), Lumbsch and Huhndorf (2010; outline, accepted as *Laboulbeniales incertae sedis*), cultures and sequences are unavailable.

Cesatiella Sacc. 1878, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, four species, type species: *C. australis* Sacc. & Speg., see Kirk et al. (2008, 2013; genus accepted), Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cetradonia J.C. Wei & Ahti. 2002, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. linearis* (A. Evans.) J.C. Wei & Ahti., asexual morph unknown, lichenized, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Cetraria Ach. 1803 nom. cons. (= *Cetrariomyces* E.A. Thomas 1939; = *Cetrariella* Kärnefelt & A. Thell, 1993; = *Coelocaulon* Link 1833; = *Geissodea* Vent. 1799; = *Platisma* Hoffm. 1796 [1795]; = *Platyphyllum* Vent. 1799; = *Pseudocornicularia* Gyeln. 1933; = *Squamaria* Hoffm. 1789 [1790] = *Usnocetraria* M.J. Lai & J.C. Wei 2007; = *Vulpicida* J.-E. Mattsson & M.J. Lai 1993 *fide*

Divakar et al. 2017; Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 21 species, type: *C. islandica* (L.) Ach., asexual morph unknown, epiphytic or saxicolous, widespread, see Thell et al. (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Cetrelia W.L. Culb. & C.F. Culb. 1968, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, c. 18 species, type: *C. cetrarioides* (Delise) W.L. Culb. & C.F. Culb., asexual morph unknown, lichenized, terrestrial or on lignum, widespread, see Lumbsch and Huhndorf (2010; outline), Crespo et al. (2010b; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Cetreliopsis M.J. Lai. 1980, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, seven species, type: *C. rhytidocarpa* (Mont. & Bosch) Lai, asexual morph unknown, lichenized, epiphytic, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Ceuthodiplospora Died. 1912, *Ascomycota* genera *incertae sedis*, one species, type: *C. robiniae* (Roberge) Died., asexual morph coelomycetous, terrestrial, Czech Republic, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Ceuthosira Petr. 1924, *Ascomycota* genera *incertae sedis*, one species, type: *C. aesculicarpa* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ceuthosporella Petr. & Syd. 1923 (= *Microcyta* Petr. & Syd. 1927 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. sambuci* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chadefaudia Feldm.-Maz. 1957 (= *Mycophycophila* Cribb & J.W. Cribb 1960 *fide* Species Fungorum 2017), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, six species, type: *C. marina* Feldm.-Maz., saprobes, ?marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline of marine genera), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Chadefaudiella Faurel & Schotter 1959, *Chadefaudiellaceae*, *Microascales*, *Sordariomycetes*, two species, type: *C. quezelii* Faurel & Schotter, saprobes, coprophilous, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Chadefaudiomyces Kamat, V.G. Rao, A.S. Patil & Ullasa 1974, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. indicus* Kamat, V.G. Rao, A.S. Patil & Ullasa, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Chaenocarpus Rebent. 1804 (= *Chaenocarpus* Spreng. 1806; = *Chaenocarpus* Lév. 1843; = *Coenocarpus* Fr. 1825; = *Cryptothamnium* Wallr. 1842; = *Simoninus* Roum. 1879 *fide* Species Fungorum 2017; Wendt et al. 2017), *Xylariales* genera *incertae sedis*, *Sordariomycetes*, three species, type: *C. setosus* (Roth) Rebent., asexual morph unknown, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b: outline), Wendt et al. (2017; accepted as *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Chaenotheca (Th. Fr.) Th. Fr. 1860 (= *Allodium* Nyl. 1896 [1895]; = *Calicium* b *Chaenotheca* Th. Fr. 1856; = *Chaenothecomyces* Cif. & Tomas. 1953; = *Cybebe* Tibell 1984; = *Cyphelium* Chevall. 1826; = *Embolus* Batsch 1786; = *Eucyphelis* Clem. 1909; = *Heydeniopsis* Naumov 1915 *fide* Species Fungorum 2017), *Coniocybaceae*, *Coniocybales*, *Coniocybomycetes*, c. 25 species, type: *C. trichialis* (Ach.) Th. Fr., asexual morph unknown, lichenized, epiphytic, widespread but mostly Northern Boreal, see Lumbsch and Huhndorf (2010, outline), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Chaenothecopsis Vain. 1927 (= *Catenomycopsis* Tibell & Constant. 1991 = *Chaenotheciella* Räsänen 1943; = *Pseudocalicium* Marchand 1896; = *Strongyleuma* Vain. 1927 *fide* Species Fungorum 2017; Art. 59), *Mycocaliciaceae*, *Mycocaliciales*, *Eurotiomycetes*, 27 species, type: *C. rubescens* Vain., asexual morph coelomycetous or hyphomycetous, lichenicolous, fungicolous, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Seifert et al. (2011; morphology of *Catenomycopsis*), Tuovila et al. (2011; new species, Oregon), Kirk et al. (2013; genus accepted), Selva (2013; new species), Hawksworth et al. (2014; new species), Rikkinen et al. (2014; new species), cultures and sequences are available but lacking for the type.

Chaetarthriomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *C. flexatus* Thaxt., asexual morph unknown, parasitic on

Hydrophilidae beetles, aquatic, widespread, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2014b; Netherlands), cultures and sequences are unavailable.

Chaetasbolisia Speg. 1918, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *C. erysiphoides* Griffon & Maubl., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see de Gruyter et al. (2009; DNA, phylogeny, Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 148.94.

Chaetendophragmia Matsush. 1971, *Ascomycota* genera *incertae sedis*, six species, type: *C. triangularis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetendophragmiopsis B. Sutton & Hodges 1978, *Ascomycota* genera *incertae sedis*, two species, type: *C. pulchra* Sutton & Hodges, hyphomycetous, sexual morph unknown, two species, saprobes, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Chaetoamphisphaeria Hara 1918, *Sordariomycetes*, genera *incertae sedis*, two species, type: *C. japonica* Hara, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Chaetoblastophorum Morgan-Jones 1977, *Ascomycota* genera *incertae sedis*, one species, type: *C. ingramii* Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetocapnodium Hongsanan & K.D. Hyde 2015, *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *C. siamensis* Hongsanan & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Liu et al. (2015a; taxonomy, phylogeny), holotype and ex-type: MFLU 14–0747, MFLUCC 13–0778.

Chaetoconis Clem. 1909 (= *Amphorula* Grove 1922 *fide* Species Fungorum 2017), *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. polygoni* (Ellis & Everh.) Clem., coelomycetous, sexual morph unknown, saprobes, terrestrial, north temperate, see de Gruyter et al. (2009; DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures available for the type: CBS 405.95.

Chaetocrea Syd. 1927, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. parasitica* Syd., asexual morph unknown, fungicolous associated with black areas of fungi on leaves, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; excluded from *Tubeufiaceae*), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Chaetocytostroma Petr. 1920, *Ascomycota* genera *incertae sedis*, one species, type: *C. arundinacea* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetodiplis Clem. 1931, *Ascomycota* genera *incertae sedis*, one species, type: *C. hirta* (Sacc.) Clem., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetodiplodia P. Karst. 1884, *Ascomycota* genera *incertae sedis*, nine species, type: *C. caulina* P. Karst., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Chaetodiplodina Speg. 1911, *Ascomycota* genera *incertae sedis*, two species, type: *C. graminicola* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetomastia (Sacc.) Berl. 1890 (= *Herpothrix* Clem. 1909; = *Melanomma* subgen. *Chaetomastia* Sacc. 1883 *fide* Species Fungorum 2017), *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, ten species, type: *C. hirtula* (P. Karst.) Berl., asexual morph unknown, terrestrial, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Teichosporaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Chaetomella Fuckel 1870 (= *Harikrishnaella* D.V. Singh & A.K. Sarbhoy 1972 [1971]; = *Volutellospora* Thirum. & P.N. Mathur 1965 [1964]; = *Zoellneria* Velen. 1934 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Chaetomellaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *C. oblonga* Fuckel, asexual morph coelomycetous,

saprobes, in soil, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species, Zambia), Johnston et al. (2014b; nomenclature), cultures available for the type: BPI 843552.

Chaetomidium (Zopf) Sacc. 1882 (= *Chaetomium* subgen. *Chaetomidium* Zopf 1881 *fide* Species Fungorum 2017), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, 16 species, type: *C. fimeti* (Fuckel) Zopf, asexual morph phialophora-like, saprobes, in soil, coprophilous, worldwide, see Greif et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 168.71.

Chaetomiopsis Moustafa & Abdul-Wahid 1990, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *C. dinae* Moustafa & Abdul-Wahid, asexual morph unknown, saprobes, Egypt, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), cultures and sequences are unavailable.

Chaetomium Kunze, in Kunze & Schmidt 1817 (= *Achaetomiella* Arx 1970; = *Bolacotricha* Berk. & Broome 1851; = *Bommerella* Marchal, 1885; = *Botryotrichum* Sacc. & Marchal 1885; *Chaetomiotricha* Peyronel 1914; = *Cladochaete* Sacc. 1912; = *Trichocladium* Harz 1871; = *Vanhallia* L. Marchand 1828 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, more than 150 species., type: *C. globosum* Kunze, asexual morph hyphomycetous, saprophytic fungus that primarily resides on plants, soil, straw, and dung, potential biological control agents, worldwide, see Ahmed et al. (2012; enzymes), Mungai et al. (2012a; from dung), Maharachchikumbura et al (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), Wang et al. (2016d; taxonomy), cultures and sequences are available.

Chaetomyces Thaxt. 1938, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *C. pinophili* Thaxt., asexual morph unknown, parasitic on Staphylinidae beetles, terrestrial, North and South America, Rossi and Bergonzo (2008; Brazil), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetonaevia Arx 1951, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *C. nannfeldtii* Arx, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetonectrioides Matsush. 1996, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. malaysiana* Matsush., saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: 5T121 (Matsushima Fungus Collection, Kobe), cultures and sequences are unavailable.

Chaetopeltaster Katum. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *C. japonicus* Katum., coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetophiophoma Speg. 1911, *Ascomycota* genera *incertae sedis*, one species, type: *C. trematis* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetophoma Cooke 1878, *Ascomycota* genera *incertae sedis*, c. 30 species, type: *C. quercifolia* Cooke, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetoplaca Syd. & P. Syd. 1917, *Ascomycota* genera *incertae sedis*, one species, type: *C. memecyli* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013, accepted as a genus in *Schizothyriaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Schizothyriaceae*), Phookamsak et al. (2016; taxonomy, transferred to *Ascomycota* genera *incertae sedis*), cultures and sequences are unavailable.

Chaetoplea (Sacc.) Clem. 1931 (= *Parahendersonia* A.W. Ramaley 1995; = *Pyrenophora* subgen. *Chaetoplea* Sacc. 1883 *fide* Wijayawardene et al. 2016b; Species Fungorum 2017), *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, c. 17 species, type: *C. calvescens* (Fr.) Clem., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as *Phaeosphaeriaceae*), Phookamsak et al. (2014c; morphology, accepted as *Leptosphaeriaceae*), Wijayawardene et al. (2014c, 2016b; outline, morphology of asexual morph), sequence data and cultures are unavailable.

Chaetopreussia Locq.-Lin. 1977, *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. chadefaudii* Locq.-Lin., asexual morph unknown, saprobes, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as *Sporormiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Chaetopsina Rambelli 1956 (= *Chaetopsinectria* J. Luo & W.Y. Zhuang 2010 *fide* Rossman et al. 2016a), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 18 species, type: *C. fulva* Rambelli, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Nagaraju et al. (2011a; new species), Crous et al. (2013b, 2014c; morphology, new species), Lombard et al. (2015b; DNA), Maharachchikumbura et al. (2016b; outline), Rossman et al. (2016a; nomenclature), Wijayawardene et al. (2017; outline), available cultures of type: CBS 142.56.

Chaetopsis Grev. 1825 (= *Chaetopsella* Höhn. 1930 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, seven species, type: *C. wauchii* Grev., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetopyrena Pass. 1881 (= *Sclerochaeta* Höhn. 1917 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *C. poae* (Niessl) Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetorostrum Zelski, Raja, A.N. Mill. & Shearer 2011, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *C. quincemilense* Zelski, Raja, A.N. Mill. & Shearer, asexual morph unknown, saprobes, aquatic, Peru, see Zelski et al. (2011b; morphology), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: ILL 40822, cultures and cultures and sequences are unavailable.

Chaetosclerophoma Petr. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *C. coluteae* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Pakistan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetoscutula E. Müll. 1958, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *C. juniperi* E. Müll., asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Chaetoseptoria Tehon 1937, *Ascomycota* genera *incertae sedis*, one species, type: *C. vignae* Tehon, coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences and cultures are unavailable.

Chaetosphaerella E. Müll. & C. Booth 1972 (= *Cladotrichum* Corda 1831; = *Dimera* Fr. 1825; = *Diplosporium* Link 1824; = *Gongylocladium* Wallr. 1833; = *Jacobaschella* Kuntze 1891; = *Oedemium* Link 1824; = *Sphinctrosporium* Kunze 1849; = *Veramyces* Subram. 1994; = *Veramycina* Subram. 1995 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Chaetosphaerellaceae*, *Coronophorales*, *Sordariomycetes*, 14 species, type: *C. phaeostroma* (Durieu & Mont.) E. Müll. & C. Booth, hyphomycetous, *Chaetosphaerella* sexual morph reported for *E. didymium* (= *E. atrum*) and *E. minus*, while *Acrogenotheca* sexual morph reported for *E. robustum*, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Réblová et al. (2016c; nomenclature).

Chaetosphaeria Tul. & C. Tul. 1863 (= *Aposphaeriella* Died. 1912; = *Chaetolentomita* Maubl. 1915; = *Didymopsamma* Petr. 1925; = *Lentomita* Niessl 1876; = *Melanopsammina* Höhn. 1919; = *Miyoshia* Kawam. 1907; = *Miyoshiella* Kawam. 1929; = *Montemartinia* Curzi 1927; = *Trichocollonema* Höhn. 1902; = *Urnularia* P. Karst. 1866 *fide* Species Fungorum 2017), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, more than 100 species, type: *C. innumera* Berk. & Broome ex Tul. & C. Tul., asexual morph complex, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Perera et al. (2016b; new species), cultures and sequences are available.

Chaetosphaerides Matsush. 2003, *Sordariomycetidae* genera *incertae sedis*, one species, type species: *C. ramichloridifera* Matsush., saprobes, terrestrial, Japan, see Maharachchikumbura et al. (2015b, 2016b; outline, accepted as *Sordariomycetidae* genera *incertae sedis*), holotype: MFC 210, sequences and cultures are unavailable.

Chaetosphaeronema Moesz 1915 (= *Pseudophoma* Höhn. 1916 *fide* Species Fungorum 2017), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, eleven species, type: *C. hispidulum* (Corda) Moesz, asexual morph coelomycetous, saprobes or plant pathogenic, widespread, see de Gruyter et al. (2010; phylogeny), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Quaedvlieg et al. (2013; phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence are available.

Chaetosphaerulina I. Hino 1938 (= *Thaxteriellopsis* Sivan. 1977 [1976] *fide* Species Fungorum 2017), ?*Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, six species, type: *C. yasudai* I. Hino, asexual morph hyphomycetous, saprobes on dead wood, see Lumbsch and Huhndorf (2010;

outline), Kirk et al. (2013; genus accepted), Boonmee et al. (2011, 2014b; treated as a doubtful genus but listed under *Tubeufiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Chaetosticta Petr. & Syd. 1925 (= *Pyrenochaeta* subgen. *Trichocicinnus* Sacc. 1906 [1905]; = *Trichocicinnus* (Sacc.) Höhn. 1919 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *C. perforata* (Ellis & Everh.) Petr. & Syd., asexual morph unknown, saprobes or parasitic, terrestrial, Europe, Japan, North America and South America, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence data unavailable, need adequate sequence data.

Chaetotheca Zukal 1890, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, one species, type: *C. fragilis* Zukal, asexual morph unknown, terrestrial, on bile concretion, Austria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, needs phylogenetic assessment.

Chaetothiersia B.A. Perry & Pfister 2008, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. vernalis* B.A. Perry & Pfister, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), holotype of the type: FH, Perry 492, cultures and sequences are available but lacking for the type species.

Chaetothyrina Theiss. 1913 (= *Ceratochaetopsis* F. Stevens & Weedon 1927; = *Chaetopeltopsis* Theiss. 1913; = *Plochmopeltidella* J.M. Mend. 1925; = *Setopeltis* Bat. & A.F. Vital 1959 *fide* Species Fungorum 2017), *Phaeothecoidiellaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *C. musarum* (Speg.) Theiss., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Singtripop et al. (2016; taxonomy), Hongsanan et al. (2016c, 2017b; new species, phylogeny, new family placement, evolution), cultures available for the type: MFLUCC 15-0383.

Chaetothyriomyces Pereira-Carv., Inácio & Dianese 2009, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *C. brasiliensis* Pereira-Carv., Inácio & Dianese, asexual morph unknown, epiphytic, terrestrial, Brazil, see Pereira-Carvalho et al. (2009a; morphology), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chaetothyriothecium Hongsanan & K.D. Hyde 2014, *Microthyriaceae*, *Microthyriales*, Dothideomycetes, one species, type: *C. elegans* Hongsanan & K.D. Hyde, asexual morph unknown, epiphytes, Thailand, see Hongsanan et al. (2014b, 2016c; taxonomy, phylogeny, evolution), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Chaetothyrium Speg. 1888 (= *Almeidaea* Cif. & Bat. 1962; = *Chaetasterina* Bubák 1909; = *Gilmania* Bat. & Cif. 1962; = *Sphaerochaetia* Bat. & Cif. 1962; = *Trotterula* Speg. 1921; = *Uloseia* Bat. 1963; = *Zukalia* Sacc. 1891 *fide* Species Fungorum 2017), *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, 66 species, type: *C. guaraniticum* Speg., asexual morph coelomycetous, epiphytic, sooty moulds, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2012b; morphology; phylogeny), Wijayawardene et al. (2012; 2017; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; morphology; phylogeny), cultures and sequences are available for some species.

Chalara (Corda) Rabenh. 1844 (= *Chaetochalara* B. Sutton & Piroz. 1965; = *Cylindrocephalum* Bonord. 1851; = *Excioconidium* Plunkett 1925; = *Excioconis* Clem. & Shear 1931; = *Hughesiella* Bat. & A.F. Vital 1956; = *Stilbochalara* Ferd. & Winge 1910; = *Torula* subgen. *Chalara* Corda 1838 *fide* Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, c. 100 species, type: *C. fusidioides* (Corda) Rabenh., hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, cosmopolitan, see Kowalski and Holdenrieder (2009; pathogens), Koukol (2011; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2016a, b; taxonomy, phylogeny), cultures and sequences are available.

Chalarodendron C.J.K. Wang & B. Sutton 1984, *Ascomycota* genera *incertae sedis*, one species, type: *C. fuscum* C.J.K. Wang & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chalarodes McKenzie 1991, *Ascomycota* genera *incertae sedis*, two species, type: *C. bisetis* McKenzie, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chalaropsis Peyronel 1916, *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, c. five species, type: *C. thielavioides* Peyronel, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see de Beer et al. (2014; revision, new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures are available.

Chalazion Dissing & Sivertsen 1975, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *C. sociabile* Dissing & Sivertsen, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype: FH, Perry 492, cultures and sequences are available but lacking for the type.

Chamaeascus L. Holm, K. Holm & M.E. Barr 1993, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *C. arcticus* L. Holm, K. Holm & M.E. Barr, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Chamaeleomyces Sigler 2010, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. granulomatis* Sigler, asexual morph unknown, reptile pathogen, terrestrial, America, see Sigler et al. (2010a; taxonomy), Schmidt et al. (2012; outline), Schmidt (2015; reptile pathogens), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Chantransiopsis Thaxt. 1914, *Ascomycota* genera *incertae sedis*, three species, type: *C. decumbens* Thaxt., coelomycetous, sexual morph unknown, entomogenous, terrestrial, Java, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chapeckia M.E. Barr 1978, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *C. nigrospora* (Peck) M.E. Barr, asexual morphs unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kruys and Castlebury (2012; DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2017, placement), cultures available for the type: CBS 125532.

Chapsa A. Massal. 1860, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 62 species, type: *C. indica* A. Massal., asexual morph unknown, lichenized fungi, terrestrial, tropical, see Mangold et al. (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2010a, 2012a; key), Sipman et al. (2012; key, Costa Rica), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Characonidia Bat. & Cavalc. 1965, *Ascomycota* genera *incertae sedis*, one species, type: *C. ingae* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Charcotiana Søchting, Garrido-Benavent & Arup in Søchting et al. 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *C. antarctica* Søchting et al., asexual morph unknown, lichenized, saxicolous, Antarctica, see Søchting et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Charomyces Seifert 1987, *Ascomycota* genera *incertae sedis*, one species, type: *C. amphimelas* Seifert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Hawaiian Island, Cuba, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences and cultures are unavailable.

Charonectria Sacc. 1880, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *C. sceptri* (P. Karst.) Lowen, temperate, dead leaves or lichenicolous, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013), Maharachchikumbura et al. (2015b, 2016b; outline), sequences and cultures are unavailable.

Chasakopama Manohar., Bagyanaryana, N.K. Rao & Kunwar 2009, *Ascomycota* genera *incertae sedis*, one species, type: *C. velgodensis* Manohar., Bagyanaryana, N.K. Rao & Kunwar, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Manoharachary et al. (2009; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: IMI 296874, sequences are unavailable.

Cheilaria Lib. 1830, *Ascomycota* genera *incertae sedis*, one species, type: *C. agrostidis* Lib., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), isotype: IMI 152241, cultures and sequences are unavailable.

Cheilymenia Boud. 1885 (= *Coprobia* Boud. 1885 *fide* Species Fungorum 2017, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, c. 66 species, type: *C. stercorea* (Pers.) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Cheiroidea W.A. Baker & Morgan-Jones 2009, *Ascomycota* genera *incertae sedis*, one species, type: *C. triarmata* (Whitton, McKenzie & K.D. Hyde) W.A. Baker & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial (on *Pandanus*), Mauritius, see Gams et al. (2009; morphology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: HKU(M) 13034, cultures and sequence unavailable.

Cheiromycella Höhn. 1910, *Ascomycota* genera *incertae sedis*, three species, type: *C. speiroidea* (Höhn.) Höhn., hyphomycetous, sexual morph unknown, on cheese and fungi, terrestrial, Europe, North America, see Braun et al.

(2009; new species), Seifert et al. (2011; morphology, treated as a genus in *Hyaloscyphaceae*), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cheiromyceopsis Mercado & J. Mena 1988, *Ascomycota* genera *incertae sedis*, one species, type: *C. echinulata* Mercado & J. Mena, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), sequences and cultures are unavailable.

Cheiromycina B. Sutton 1986, *Ascomycota* genera *incertae sedis*, type: *C. flabelliformis* B. Sutton, five species, hyphomycetous, sexual morph unknown, saprobes, lichenized, Austria, Russia, Sweden, see Diederich et al. (2008; treated *C. ananas* Aptroot & Schiefelb. as a synonym of *Dictyocatenulata alba* Finley & E.F. Morris), An et al. (2012; morphology), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype: IMI288326.

Cheiropolyschema Matsush. 1980, *Ascomycota* genera *incertae sedis*, two species, type: *C. formosana* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, Taiwan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: MFC-6717, sequences and cultures are unavailable.

Cheirospora Moug. & Fr. 1825 (= *Hyperomyxa* Corda 1839; = *Moronopsis* Delacr. 1891; = *Myriocephalum* De Not. ex Corda 1842; = *Rabdosporium* Chevall. 1826; = *Thyrsidium* Mont. 1848 [1846-49] *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *C. botryospora* (Mont.) Berk. & Broome, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Crous et al. (2015c; morphology, phylogeny, DNA), Wijayawardene et al. (2016b; morphology, phylogeny, outline), reference specimens available for type: MFLU 15–3550, cultures available: CPC 24603 = CBS 139999, CPC 24605, CPC 24607, CPC 24611.

Cheirosporium L. Cai & K.D. Hyde 2008, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *C. triseriale* L. Cai & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, Asia, Egypt, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Abdel-Aziz (2016b; new species), Boonmee et al. (2016a; phylogeny), cultures and sequences are available.

Chevalieropsis Arnaud. 1923 (= *Chevalieria* Arnaud 1920; = *Parodiellinopsis* Hansf. 1946 [1944-45] fide Species Fungorum 2017), *Perisporiopsidaceae*, *Dothideomycetes* genera *incertae sedis*, two species, type: *C. ctenotricha* (Pat. & Har.) G. Arnaud, asexual morph hyphomycetous, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable, need recollecting to verify generic placement.

Chiastospora Riess 1852, *Ascomycota* genera *incertae sedis*, one species, type: *C. parasitica* Riess, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chikaneea B. Sutton 1973, *Ascomycota* genera *incertae sedis*, one species, type: *C. holleroniae* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, Canada, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), sequences are unavailable.

Chiodecton Ach. 1814 (= *Melanodecton* A. Massal. 1860 [1859-1860] *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, c. 24 species, type: *C. sphaerale* Ach., lichenized, corticolous or saxicolous, worldwide, see Ertz et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Chionomyces Deighton & Piroz. 1972, *Ascomycota* genera *incertae sedis*, seven species, type: *C. meliolicola* (Cif.) Deighton & Piroz., hyphomycetous, sexual morph unknown, saprobes, worldwide (tropical), see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), sequences and cultures are unavailable.

Chirleja Lendemer & B.P. Hodk. 2012, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *C. buckii* Lendemer & B.P. Hodk., asexual morph unknown, lichenized, terrestrial, South America, see Lendemer and Hodkinson (2012a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Chithramia Nag Raj 1988, *Ascomycota* genera *incertae sedis*, one species, type: *C. elegantissima* Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2016b, 2017; morphology, outline), Kirk et al. (2013; genus accepted), holotype: BPI 71492, sequences and cultures are unavailable.

Chitonomyces Peyr. 1873 (= *Heimatomyces* Peyr. 1873 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 98 species, type: *C. melanurus* Peyr., asexual morph unknown, biotrophic, worldwide, see Lumbsch and Huhndorf (2010; outline), Goldmann and Weir (2012; phylogeny), Kirk et al. (2013; genus accepted), sequences are available for type: (SSU, LSU).

Chitonospora E. Bommer, M. Rousseau & Sacc. 1891, *Phlogicylindriaceae*, *Amphisphaeriales*, *Xylariomycetidae*, *Sordariomycetes*, one species, type: *C. ammophila* E.

Bommer, M. Rousseau & Sacc., from dead grasses, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015; outline), sequences and cultures are unavailable.

Chlamydomyces Bainier 1907, *Ascomycota* genera *incertae sedis*, two species, type: *C. diffusus* Bainier, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences and cultures are unavailable.

Chlamydopsis Hol.-Jech. & R.F. Castañeda 1986, *Ascomycota* genera *incertae sedis*, one species, type: *C. proliferans* Hol.-Jech. & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: INIFAT C84/140, cultures and sequences are unavailable, compare with *Acrodictys*, *Ashtaangam* and *Petrakia*.

Chlamydorubra K.B. Deshp. & K.S. Deshp. 1966, *Ascomycota* genera *incertae sedis*, one species, type: *C. verrucosa* K.B. Deshp. & K.S. Deshp., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences and cultures are unavailable.

Chlamydosauromyces Sigler, Hambl. & Paré 2002, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *C. punctatus* Sigler, Hambl. & Paré, asexual morph unknown, from bee hive, USA, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), sequences and culture available.

Chlamydotubeufia Boonmee & K.D. Hyde 2011, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, five species, type: *C. huaikangplaensis* Boonmee & K.D. Hyde, saprobes on decaying wood, Thailand, asexual morph hyphomycetous, see Boonmee et al. (2011, 2012; taxonomy), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Wijayawardene et al. (2014c; outline), Brahamanage et al. (2017, new species, phylogeny), cultures and sequences are available, holotype and ex-type strains of the type: MFLUCC 10-0926, MFLU 10-0972.

Chlorencoelia J.R. Dixon 1975, *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *C. versiformis* (Pers.) J.R. Dixon, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ren and Zhuang (2014; new species, China), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Chloridium Link 1809 (= *Gonytrichum* Nees & T. Nees 1818; = *Melanopsammella* Höhn. 1920 *fide* Réblová et al. 2016c), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, c. five new species, type: *C. viride* Link, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable for type species.

Chlorociboria Seaver ex C.S. Ramamurthi, Korf & L.R. Batra 1958, *Chlorociboriaceae*, *Helotiales*, *Leotiomycetes*, c. 22 species, saprobes, worldwide, see Huhtinen et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; new species, phylogeny), cultures and sequences are available.

Chloroepilichen Etayo 2010, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. rolfii* Etayo, asexual morph unknown, lichenicolous, terrestrial, Southern America, see Etayo (2010; description and distinction of similar lichenicolous genera), cultures and sequences are unavailable, holotype: UPS, R. Santesson & G. Thor P75:5.

Chloroscypha Seaver 1931 (= *Parksia* E.K. Cash 1945 *fide* Species Fungorum 2017), *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, 14 species, type: *C. seaveri* Rehm ex Seaver, asexual morph sporodochia-like, endophytic, weak pathogen and saprobes, on leaves of *Cupressaceae* (rarely *Taxodiaceae*), widespread in temperate areas, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype: NY herbarium (NY00915009), living cultures and sequences are unavailable for the type of the type species.

Chlorospleniella P. Karst. 1885, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. fennica* (P. Karst.) Sacc. ex Clem. & Shear, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chlorosplenium Fr. 1849 (= *Chrysosplenium* Allesch. 1898 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, five species, type: *C. chlora* (Schwein.) M.A. Curtis, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chlorostroma A.N. Mill., Lar. N. Vassiljeva & J. D. Rogers. 2007, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *C. subcubisporum* A.N. Mill., Lar.N. Vassiljeva & J.D. Rogers, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline),

Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are unavailable.

Chlorovibrissea L.M. Kohn 1989, ?*Vibrisseaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *C. bicolor* (G.W. Beaton & Weste) L.M. Kohn, asexual morph phialophora-like, aquatic or semi-aquatic on wood and twigs, Australasia, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Sandoval-Leiva et al. (2014; DNA), holotype in MELU herbarium, cultures and sequences are available.

Choanatiara DiCosmo 1984, *Ascomycota* genera *incertae sedis*, two species, type: *C. lunata* DiCosmo & Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, Canada, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Choiromyces Vittad. 1831 (= *Choeromyces* Tul. & C. Tul. 1862; = *Piersonia* Harkn. 1899; = *Tartufa* (Gray) Kuntze 1898; = *Tuber* sect. *Tartufa* Gray 1821; = *Zobelia* Opiz 1855 *fide* Species Fungorum 2017), *Tuberaceae*, *Pezizales*, *Pezizomycetes*, type: *C. meandriformis* Vittad., asexual morph unknown, saprobes, hypogeous, terrestrial, worldwide, see Wedén et al. (2009; edible truffle *Choiromyces venosus* in Sweden), Lumbsch and Huhndorf (2010; outline), Moreno et al. (2012b; phylogeny), Bonito et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Chondroderris Maire 1937, *Helotiales*, genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. nevadensis* Maire, asexual morph unknown, saprobes, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chordomyces Bilanenko, M.L. Georgieva & Grum-Grzhimaylo 2016, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, one species, type: *C. antarcticus* E.N. Bilanenko, M.L. Georgieva, A.A. Grum-Grzhimaylo, saprobes, from soil, see Grum-Grzhimaylo et al. (2016; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Choreospora Constant. & R. Sant. 1987, *Ascomycota* genera *incertae sedis*, two species, type: *C. tibellii* Constant. & R. Sant., hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chorioactis Kupfer ex Eckblad 1968 (= *Chorioactis* Kupfer 1902 nom. inval. Art. 38.5, Ex. 1 (Melbourne), *Chorioactidaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. geaster* (Peck) Kupfer ex Eckblad, asexual morph unknown, saprobes, terrestrial, USA, China, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), sequences are available.

Chrismofulvea Marbach 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, four species, type: *C. dialyta* (Nyl.) Marbach, asexual morph unknown, lichenized, epiphytic, North and South America, see Lücking et al. (2017a; classification), sequences are available.

Chromatochlamys Trevis. 1860 (= *Microglaenomyces* Cif. & Tomas. 1953; = *Weitenwebera* Körb. 1863 *fide* Species Fungorum 2017), *Thelenellaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *C. muscicola* (Ach.) Trevis., lichenized, see Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Chromendothia Lar. N. Vassiljeva 1993, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *C. appendiculata* Lar. N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, temperate north-eastern Asia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2016b; phylogeny, outline), holotype of type: VLA P-2939, sequences are available for *C. citrina*.

Chroodiscus (Müll. Arg.) Müll. Arg. 1890 (= *Ocellularia* sect. *Chroodiscus* Müll. Arg. 1883; = *Phyllobrassia* Vain. 1921 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 14 species, type: *C. coccineus* (Leight.) Müll. Arg., lichenized (*Trenthepohlia* or *Phycopeltis*), terrestrial (foliicolous), tropical, see Papong et al. (2009a, b; DNA), Parnmen et al. (2012; DNA), Sipman et al. (2012; key), Rivas Plata et al. (2013; DNA), Lumbsch et al. (2014a, b; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Chrysachne Cif. 1938, *Ascomycota* genera *incertae sedis*, two species, type: *C. hyphochoria* Cif., hyphomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Chrysocrypta Crous & Summerell 2012, *Erythrogloeaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. corymbiae* Crous & Summerell, coelomycetous, sexual morph unknown, terrestrial, Australia, see Crous et al. (2012e; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype: CBS H-20963, cultures and sequences are available.

Chrysofolia Crous & M.J. Wingf. 2015, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. colombiana* Crous, Rodas & M.J. Wingf., coelomycetous, saprobes, Colombia, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al.

(2017; outline, phylogeny), holotype and ex-type: CBS H-22238, CPC 24986.

Chrysoporthe Gryzenh. & M.J. Wingf. 2004 (= *Chrysoporthella* Gryzenh. & M.J. Wingf. 2004 *fide* Maharachchikumbura et al. 2015b, 2016b), *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, eight species, type: *C. cubensis* (Bruner) Gryzenh. & M.J. Wingf., asexual morph coelomycetous, one species, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Chungu et al. (2010; new species), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: BPI 631857, cultures and sequences are available.

Chrysosporium Corda 1833 (= *Aleurophora* O. Magalh. 1916; = *Atrichophyton* Castell. & Chalm. 1919; = *Blastomyces* Costantin & Rolland 1889 [1888]; = *Emmonsia* Cif. & Montemart. 1959; = *Rhinocladiella* Kamyschko 1960; = *Rhinocladiopsis* Kamyschko1961 *fide* Species Fungorum 2017), *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, c. 70 species, type: *C. corii* Corda, hyphomycetous, terrestrial, saprobes on keratinous substrates, but also reported from other sources, including dung, soil and foodstuffs, several species are opportunistic pathogens of vertebrates including humans, cosmopolitan, highly polyphyletic, see Liang et al. (2009a; taxonomy), Pitt et al. (2013; reallocation of some xerophilic species, with comments on the polyphyly of the genus), Crous et al. (2016b; new species, phylogeny), cultures and sequences properly representing the type species are unavailable, needs phylogenetic assessment, *Chrysosporium* is tentatively considered herein as a member of *Onygenaceae* following de Hoog et al. (2017).

Chrysothrix Mont. 1852 (= *Allarthonia* (Nyl.) Zahlbr. 1902; = *Plearthonis* Clem. 1909 *fide* Jaklitsch et al. 2016a), *Chrysotrichaceae*, *Arthoniales*, *Arthoniomycetes*, 14 species, type: *C. noli-tangere* (Mont.) Mont., asexual morph unknown, lichenized, saxicolous or epiphytic, widespread, see Nelsen et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Laundon (2012, conserved against *Alysphaeria*), Sundin et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Chuppia Deighton 1965, *Ascomycota* genera *incertae sedis*, one species, type: *C. sarcinifera* Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), sequences and cultures unavailable.

Ciboria Fuckel 1870 (= *Ciboriopsis* Dennis 1962; = *Moellerodiscus* Henn. 1902 *fide* Species Fungorum 2017), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, c. 21 species, type: *C. caucus* (Rebent.) Fuckel, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Ciborinia Whetzel 1945, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, 16 species, type: *C. bifrons* (Whetzel) Whetzel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cicadocola Brain 1923, *Ascomycota* genera *incertae sedis*, one species, type: *C. cicadarum* (Šulc) Bain, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), sequences and cultures unavailable.

Cidaris Fr. 1849, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, three species, type: *C. caroliniana* (Schwein.) Fr., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Cidaris Fr. 1849, *Pezizales*, genera *incertae sedis*, *Pezizomycetes*, one species, type: *C. caroliniana* (Schwein.) Fr., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, treated as *Helvellaceae*), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Ciferria Gonz. Frag. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *C. coccothrinacis* Gonz. Frag., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences and cultures unavailable.

Ciferriascosea Senan., Bhat, Camporesi & K.D. Hyde 2015, *Phlogicylindriaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *C. rectamurum* Senanayake, Bhat, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, Italy, see Senanayake et al. (2015; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ciferrina Petr. 1932, *Ascomycota* genera *incertae sedis*, one species, type: *C. pulchella* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence data and cultures are unavailable.

Ciferriopeltis Bat. & H. Maia 1965, *Ascomycota* genera *incertae sedis*, one species, type: *C. domingensis* (Petr. & Cif.) Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, see Wijayawardene et al. (2012, 2017; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Ciliella Sacc. & P. Syd. 1902, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. epidendri* (Rehm) Sacc. & P. Syd., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ciliochora Höhn. 1919 (= *Petrakomyces* Subram. & K. Ramakr. 1953 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *C. longiseta* (Racib.) Höhn. coelomycetous, sexual morph unknown, saprobes, terrestrial, Dominican Republic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ciliochorella Syd. 1935 (= *Phaeociliospora* Bat. & Peres 1967; = *Plagionema* Subram. & K. Ramakr. 1927 *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, four species, type: *C. mangiferae* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Allegrucci et al. (2011; morphology, new species), Wijayawardene et al. (2012, 2016b, 2017; morphology, phylogeny, outline), Kirk et al. (2013; genus accepted), Tangthirasunun et al. (2015; morphology, DNA, phylogeny), Hyde et al. (2016; new species, phylogeny), available specimens and cultures of type: MFLU 13-0264, MFLUCC 12-0310 =ICMP 20052.

Ciliofusospora Bat. & J.L. Bezerra 1963, *Sordariomycetes*, genera *incertae sedis*, one species, type: *C. oenocarpi* Bat. & J.L. Bezerra, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ciliolarina Svrček 1977, *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. laricina* (Raitv.) Svrček, asexual morph hyphomycetous (septonema-like), saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Filippova (2012; records from west Siberia), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ciliophora Petr. 1929, *Ascomycota* genera *incertae sedis*, two species, type: *C. cryptica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central America, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ciliophorella Petr. 1940, *Ascomycota* genera *incertae sedis*, two species, type: *C. insignis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Austria, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cilioplea Munk 1953, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. coronata* (Niessl) Munk, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lophiostomataceae*), Hyde et al. (2013) did not accept as a genus in *Lophiostomataceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Ciliosporella Petr. 1927, *Ascomycota* genera *incertae sedis*, two species, type: *C. selenospora* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Austria, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ciposia Marbach 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *C. wheeleri* (R.C. Harris) Marbach, asexual morph unknown, lichenized, epiphytic, North America, see Lücking et al. (2017a; classification), sequences are unavailable.

Circinaria Link 1809, *Megasporaceae*, *Pertusariales*, *Lecanoromycetes*, 25 species, type: *C. contorta* (Hoffm.) A. Nordin, Savić & Tibell, lichenized, see Nordin et al. (2010; phylogeny), Sohrabi et al. (2013a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Circinoconiopsis A. Hern.-Gut. 2013, *Ascomycota* genera *incertae sedis*, one species, type: *C. amazonica* A. Hern. Gut., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Hernández-Gutiérrez (2013; morphology), holotype: MG 203121, sequences and cultures unavailable.

Circinoconis Boedijn 1942, *Ascomycota* genera *incertae sedis*, one species, type: *C. paradoxa* Boedijn, hyphomycetous, sexual morph unknown, saprobes, terrestrial, East Indies, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Circinoniesslia Samuels & M.E. Ban 1997, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. nectriae* Samuels & M.E. Barr, asexual morph unknown, saprobes or fungicolous, terrestrial, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: BPI, Samuels 8028, cultures and sequences are unavailable.

Circinotrichum Nees 1816 (= *Dephilippia* Rambelli 1959; = *Gyrocerus* Corda, Icon. fung. (Prague) 1: 9 1837; = *Gyrotrichum* Spreng. 1827 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, c. 20 species, type:

C. maculiforme Nees, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014c; morphology), cultures available for type: CBS 122758, CPC 24566.

Cirrenalia Meyers & R.T. Moore 1960, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, 14 species, type: *C. macrocephala* (Kohlm.) Meyers & R.T. Moore, hyphomycetous, sexual morph unknown, saprobes, aquatic, terrestrial, worldwide, see Abdel-Wahab et al. (2010; phylogeny, key), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available MUCL 15736.

Cirrosporium S. Hughes 1980, *Eurotiomycetes*, genera *incertae sedis*, one species, type: *C. novae-zelandiae* S. Hughes, coelomycetous, sexual morph unknown, saprobes, terrestrial, New Zealand, see Réblová and Seifert (2012; morphology, phylogeny), Wijayawardene et al. (2012, 2016b, 2017; morphology, phylogeny, outline), Kirk et al. (2013; genus accepted), holotype: PDD 36101, cultures available CBS 123236, ICMP 18891.

Cirsosia G. Arnaud 1918 (= *Cirsosiella* G. Arnaud 1918 [1917]; = *Halbanina* G. Arnaud 1918 [1917]; = *Lembopodia* Bat. 1960; = *Morqueria* Bat. & H. Maia 1963 *fide* Species Fungorum 2017), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, 15 species, type: *C. manaosensis* (Henn.) G. Arnaud, asexual morph coelomycetous (=homalopeltis-like *fide* Hofmann 2009), epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Asterinaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; taxonomy, keys), Wijayawardene et al. (2014c; outline), placement in *Asterinaceae* supported by morphology, isotype of type: K(M) 176510, cultures and sequences are unavailable.

Cirsosina Bat. & J.L. Bezerra 1960, *Dothideomycetes* genera *incertae sedis*, two species, type: *C. rhododendri* Bat. & J.L. Bezerra, asexual morph unknown, saprobes, terrestrial, Europe, Borneo, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Cirsosiopsis Butin & Speer 1979, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *C. violacescens* Butin & Speer, asexual morph unknown, epiphytes, terrestrial, Brazil, see Hofmann (2009; review, accepted as a genus in *Microthyriaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; did not accepted as a genus in *Microthyriaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, *genera incertae sedis*), Wu et al. (2014b; review, transferred to *Parmulariaceae*) placement in *Parmulariaceae* supported by morphology, holotype: ZT Myc 4325, cultures and sequences are unavailable.

Cissococcomyces Brain 1923, *Ascomycota* genera *incertae sedis*, one species, type: *C. natalensis* Brain, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Cistella Quél. 1886 (= *Chimaeroscypha* Raitv. 2004; *Clavidisculum* Kirschst. 1938 *fide* Jaklitsch et al. 2016a), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, c. 45 species, type: *C. dentata* (Pers.) Quél., asexual morph unknown, erroneously linked with phialophora-like anamorph (*Cistella rubescens* = *Hyphodiscus hymeniophilus*, saprobes on wood, dead herbaceous stems, fallen leaves, needles and cones, widespread, mainly in temperate zones, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; taxonomy), Baral et al. (2015; taxonomy), cultures and sequences are available.

Citeromyces Santa María 1957, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, five species, type: *C. matritensis* (Santa María) Santa María, saprobes, terrestrial, worldwide, see Kurtzman (2012; new species), Casaregola et al. (2013; new species), cultures and sequences are available.

Civisubramaniania Vittal & Dorai 1986, *Ascomycota* genera *incertae sedis*, two species, type: *C. eucalypti* Vittal & Dorai hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: IMI 298300, cultures and sequences are unavailable.

Cladia Nyl. 1870 (= *Clathrina* Müll. Arg. 1883 *fide* Species Fungorum 2017), *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, c. 25 species, type: *C. aggregata* (Sw.) Nyl., asexual morph unknown, lichenized, terrestrial, austral or widespread, see Parnmen et al. (2010; generic delimitation), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lecanoraceae*), Lumbsch et al. (2010b; generic delimitation), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Cladidium Hafellner 1984 (= *Cladodium* (Tuck.) Gyeln. 1934; = *Lecanora* sect. *Cladodium* Tuck. 1882 *fide* Species Fungorum 2017), *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. thamnitis* (Tuck.) Hafellner (= *C. bolanderi* (Tuck) B.D. Ryan), asexual morph unknown, lichenized, saxicolous, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al.

(2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Cladochasiella Marvanová 1997, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. divergens* Marvanová, hyphomycetous, sexual morph unknown, saprobes, aquatic, Czech Republic, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Baschien et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), holotype and ex-type of the type: PRM 842967, CCM F-13489.

Cladoconidium Bandoni & Tubaki 1985, *Ascomycota* genera *incertae sedis*, one species, type: *C. articulatum* Bandoni & Tubaki, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, Canada, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cladographium Peyronel 1918, *Ascomycota* genera *incertae sedis*, one species, type: *C. rivulorum* Peyronel, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Cladonia P. Browne 1756 (see Species Fungorum 2017 for synonyms), *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, c. 550 species, type: *C. subulata* (L.) F.H. Wigg., asexual morph unknown, lichenized, terricolous or on lignum, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lecanoraceae*), Pino-Bodas et al. (2012; polymorphic species), Ahti and Stenroos (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Cladoniicola Diederich, van den Boom & Aptroot 2001, *Pezizomycotina*, genera *incertae sedis*, one species, type: *C. staurospora* Diederich, van den Boom & Aptroot, asexual morph unknown, lichenicolous, terrestrial, temperate, see Etayo (2010b; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cladophialophora Borelli 1980, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, 35 species, type: *C. carrionii* (Trejos) de Hoog, Kwon-Chung & McGinnis, hyphomycetous, mostly terrestrial, but also reported from mangrove environments, mainly saprobes associated with soil and plant material but a few species are lichenicolous, endophytic or plant-pathogenic, several species cause infections in animals, including humans, cosmopolitan, although the type species belongs in *Herpotrichiellaceae*, some species are related to other families of *Chaetothyriales*, see Crous et al. (2011c, 2013a; new species, pathogenicity to plants), Badali et al. (2008, 2009, 2011; outline, new species), Diederich et al. (2013; lichenicolous species), Feng et al. (2013; new species), Seyedmousavi et al. (2013; pathogenicity to animals), Gueidan et al. (2014a; phylogeny), Madrid et al. (2016; new species, comments about the polyphyly of the genus), Usui et al (2016; new species), ex-type strain of the type: =CBS 160.54, sequences are available.

Cladoriella Crous 2006, *Dothideomycetes* genera *incertae sedis*, three species, type: *C. eucalypti* Crous, hyphomycetous, sexual morph unknown, saprobes or ?pathogens, terrestrial, Australia, South Africa, see Cheewangkoon et al. (2009; morphology, new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), holotype and ex-type: CBS H-18043, CPC 10953–10955 =CBS 115898–115890.

Cladorrhinum Sacc. & Marchal 1885 (= *Bahupaathra* Subram. & Lodha 1964 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, eight species, type: *C. foecundissimum* Sacc. & Marchal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Madrid et al. (2011a; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Carmaran et al. (2015; phylogeny), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), available cultures of type: BCCM 6980.

Cladosphaera Dumort. 1822, *Ascomycota* genera *incertae sedis*, one species, type: *C. cespitosa* (Tode) Dumort., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cladosporiella Deighton 1965, *Ascomycota* genera *incertae sedis*, five species, type: *C. cercosporicola* Deighton, hyphomycetous, sexual morph unknown, saprobes, fungicolous, terrestrial, Africa, Asia, Caribbean, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cladosporiopsis S.C. Ren & X.G. Zhang 2012, *Ascomycota genera incertae sedis*, one species, type: *C. ovata* S.C. Ren & X.G. Zhang, hyphomycetous, sexual morph unknown, saprobes, fungicolous, terrestrial, China, see Ren et al. (2012a; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Cladosporium Link 1816 (= *Acrosporella* Riedl & Ershad 1977 [1976]; = *Azosma* Corda 1831; = *Davidiella* Crous & U. Braun 2003; = *Didymotrichum* Bonord. 1851; = *Heterosporium* Klotzsch ex Cooke 1877; = *Hormodendrum* Bonord. 1851; = *Mydonosporium* Corda 1833; = *Myxocladium* Corda 1837; = *Polyrhizium* Giard 1889; = *Spadicesporium* V.N. Boriss. & Dvoïnos 1982; =

Sporocladium Chevall. 1826 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b; Species Fungorum 2017), *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, c. 300 species, type: *C. herbarum* (Pers.) Link, hyphomycetous, sexual morph formerly known in *Davidiella*, saprobes, endophytes, animal, human and plant pathogens, worldwide, see Seifert et al. (2011; morphology), Bensch et al. (2012, 2015; phylogeny, taxonomy), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Cladosporiaceae*), Sandoval-Denis et al. (2015b; clinical), lectotype of type: L 910.225-733, epitype: CBS-H 19853; ex epitype culture, CBS 121621.

Clandestinotrema Rivas Plata, Lücking & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 17 species, type: *C. clandestinum* (Ach.) Rivas Plata, Lücking & Lumbsch, lichenized, see Rivas Plata et al. (2012a; taxonomy), Lumbsch et al. (2014a, b; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Clasteropycnis Bat. & Cavalc. 1963, *Ascomycota* genera *incertae sedis*, one species, type: *C. coumae* Bat. & Cavalc., sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clasterosphaeria Sivan. 1984, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, two species, type: *C. cyperi* Sivan., asexual morph clasterosporium-like, saprobes, terrestrial, India, Malaysia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: IMI 56878, cultures and sequences are unavailable.

Clasterosporium Schwein. 1832 (= *Apotemnoum* Corda 1833; = *Brachydesmium* (Sacc.) Costantin 1888; = *Cheiropodium* Syd. & P. Syd. 1915; = *Clasterosporium* sect. *Brachydesmium* Sacc. 1886; = *Cometella* Schwein. ex Fr. 1849; = *Hymenopodium* Corda 1837; = *Phanerocoryneum* Höhn. 1923; = *Sporhelminthium* Speg. 1918 *fide* Species Fungorum 2017), *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, ten species, type: *C. caricinum* Schwein., sexual morph ?clasterosphaeria-like, saprobes, terrestrial, worldwide, see Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, sexual-asexual link was not confirmed.

Clathroconium Samson & H.C. Evans 1982, *Ascomycota* genera *incertae sedis*, one species, type: *C. arachnicola* Samson & H.C. Evans, hyphomycetous, sexual morph unknown, entomopathogens, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Clathroporina Müll. Arg. 1882, *Porinaceae*, *Ostropales*, *Lecanoromycetes*, 25 species, type: *C. endochrysea* (C. Bab.) Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Clathrosphaerina Beverw. 1951, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. zalewskii* Beverw., sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clathrospora Rabenh. 1857, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, more than 40 species, type: *C. elynae* Rabenh., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2015c; morphology, accepted as *Pleosporaceae*), sequences are available, type sequence data are available: CBS 161.51; CBS 196.54.

Clathrosporium Nawawi & Kuthub. 1987, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. intricatum* Nawawi & Kuthub., sexual morph unknown, saprobes, aero-aquatic, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Claurouxia D. Hawksw. 1988 (= *Pseudolecidea* Clauzade & Cl. Roux 1984 [1983] *fide* Species Fungorum 2017), *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. chalybeioides* (Nyl.) D. Hawksw., asexual morph unknown, lichenized, saxicolous, Europe, North America, see Gilbert and Hawksworth (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Claussenomyces Kirschst. 1923 (= *Corynella* Boud. 1885; = *Dendrostilbella* Höhn. 1905 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, 19 species, type: *C. jahnianus* Kirschst., asexual morph formerly known in *Dendrostilbella*, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012; outline and asexual morph), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), sequence data are available for unidentified *Claussenomyces* species.

Clauzadea Hafellner & Bellem. 1984, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, five species, type: *C. monticola* (Ach.) Hafellner & Bellem., asexual morph unknown, lichenized, saxicolous, widespread, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Clauzadeana Cl. Roux 1984, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. instratula* (Nyl.) Cl. Roux, asexual morph unknown, lichenized, saxicolous, Asia, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Clauzadella Nav.-Ros. & Cl. Roux 1996, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *C. gordensis* Nav.-Ros. & Cl. Roux, asexual morph unknown, terrestrial, lichenized, on *Verrucaria viridula* (Schrad.) Ach., France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Clauzadeomyces Diederich 1994, *Ascomycota* genera *incertae sedis*, one species, type: *C. verrucosus* Diederich, hyphomycetous, sexual morph unknown, lichenicolous, non-lichenized, terrestrial, Belgium (Ardennes), see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: LG, Lambinon, 22 Aug. 1965, cultures and sequences are unavailable.

Clavariana Nawawi 1976, *Ascomycota* genera *incertae sedis*, one species, type: *C. aquatica* Nawawi, hyphomycetous, sexual morph unknown, in river foam, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Clavascidium Breuss 1996, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, eight species, type species: *C. umbrinum* (Breuss) Breuss, asexual morph coelomycetous, terrestrial, lichenized, occurring on soil, rocks and mosses, America, Asia, Europe, see Gueidan et al. (2009; phylogeny, proposal to synonymize *Clavascidium* with *Placidium* A. Massal.), Prieto et al. (2010c, 2012; morphology, reinstatement of *Clavascidium* as a distinct genus), sequences of the type material of the type species are unavailable, but sequences of non-type material are available.

Clavatispora Boonmee & K.D. Hyde 2014, *Venturiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *C. thailandica* Boonmee & K.D. Hyde, asexual morph hyphomycetous, saprobes, terrestrial, Thailand, see Boonmee et al. (2014a; taxonomy), sequence data available, holotype and ex-type: MFLU 10-0038, MFLUCC 10-0107 = BCC 38863 = IFRD 2170.

Clavatisporella K.D. Hyde 1995, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *C. musicola* K.D. Hyde, asexual morph unknown, saprobes, Irian Jaya (Papua), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), holotype: BRIP 22403, cultures and sequences are unavailable.

Clavatospora Sv. Nilsson ex Marvanová & Sv Nilsson 1971 (= *Clavatospora* Sv. Nilsson 1933 *fide* Species Fungorum 2017), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three species, type: *C. longibrachiata* (Ingold) Sv. Nilsson ex Marvanová & Sv. Nilsson, hyphomycetous, sexual morph corollospora-like, saprobes, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016a; outline), needs revision since genus shown to be polyphyletic, reference cultures of type: UMB-1109.13.

Claviceps Tul. 1853 (= *Balansiella* Henn. 1904; = *Kentrosporium* Wallr. 1844; = *Mothesia* Oddo & Tonolo 1967; = *Spermoedia* Fr. 1822; = *Sphacelia* Lév. 1827; = *Ustilagopsis* Speg. 1880 *fide* Rossman et al. 2016a), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 56 species, type: *C. purpurea* (Fr.) Tul., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Pažoutová et al. (2008, 2011, 2015; new species), Kirk et al. (2013; genus accepted), Kolařík (2015a, 2015b; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Claviradulomyces P.R. Johnst., D.C. Park, H.C. Evans, R.W. Barreto & D.J. Soares 2010, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *C. dabeicola* P.R. Johnst., D.C. Park, H.C. Evans, R.W. Barreto & D.J. Soares, asexual morph (putative) pycnidial on branches of vascular plants, Africa, South America, see Evans et al. (2010; taxonomy), Barreto et al. (2012; phylogeny), cultures and sequences are available.

Clavispora Rodrigues de Miranda 1979, *Metschnikowiaceae*, *Saccharomycetales*, *Saccharomycetes*, 20 species, type: *C. lusitaniae* Rodrigues de Miranda, asexual reproduction by budding, saprophytic, from cacti, agave, processed dates and other high osmotic environments, occasionally an opportunistic human pathogen, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cleistocystis Sousa da Câmara 1931, *Ascomycota* genera *incertae sedis*, one species, type: *C. rosarum* Sousa da Câmara, coelomycetous, sexual morph unknown, saprobes, terrestrial, Portugal, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cleistoiodophanus J.L. Bezerra & Kimbr. 1976, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type:

C. conglutinatus J.L. Bezerra & Kimbr., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Cleistonium Speer 1986, *Ascomycota* genera *incertae sedis*, one species, type: *C. parasiticum* Speer, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2014c) accepted as a genus in *Gloniaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline, accepted as *Ascomycota genera incertae sedis*), cultures and sequences are unavailable.

Cleistophoma Petr. & Syd. 1927, *Ascomycota* genera *incertae sedis*, two species, type: *C. suberis* (Prill. & Delacr.) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cleistosphaera Syd. & P. Syd. 1916, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *C. macrostegia* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, S. America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as in *Perisporiopsidaceae*, key), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Cleistothelebolus Malloch & Cain 1971, *Thelebolaceae*, *Thelebolales*, *Pezizomycetes*, one species, type: *C. nipigonensis* Malloch & Cain, asexual morph unknown, coprophilous, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Clematidis Tibpromma, Camporesi & K.D. Hyde 2016, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *C. italica* Tibpromma, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Li et al. (2016a; taxonomy, phylogeny), holotype and ex-type: MFLU 14-0669, MFLUCC 15-0084.

Clematomyces Thaxt. 1900 (= *Peziza* sect. Clibanites P. Karst. 1869 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, five species, type: *C. pinophili* Thaxt., asexual morph unknown, biotrophic, Asia, West Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clibanites (P. Karst.) P. Karst. 1871, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. paradoxa* (P. Karst.) P. Karst., asexual morph unknown, saprobes on wood, Finland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype in H.

Cliostomum Fr. 1825 (= *Catillariomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Rhytismella* P. Karst. 1884; = *Sporoblastia* Trevis. 1851 *fide* Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, c. 25 species, type: *C. corrugatum* (Ach.) Fr., asexual morph unknown, lichenized, epiphytic, world-wide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Printzen (2014; phylogeny and relationships), Lücking et al. (2017a; classification), sequences are available.

Clohesyomyces K.D. Hyde 1993, *Lindgomycetaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. aquaticus* K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, aquatic, Australia, see Zhang et al. (2012a; new species, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), holotype: BRIP 20092, cultures and sequences are available.

Clohiesia K.D. Hyde 1995, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, three species, type: *C. corticola* K.D. Hyde, sexual morph unknown, saprobes, terrestrial, China, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: BRIP 21485, cultures available for *Clohiesia corticola* HKUCC 3712.

Clonophoromyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *C. grenadinus* Thaxt., asexual morph unknown, biotrophic, West Indies, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015c; notes), cultures and sequences are unavailable.

Clonostachys Corda 1839 (= *Bionectria* Speg. 1919 *fide* Rossman et al. 2013b), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 50 species, type: *C. araucaria* Corda, hyphomycetous, sexual morph formerly known in *Bionectria*, on soil, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; phylogeny, new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Clypeispora A.W. Ramaley 1991, *Ascomycota* genera *incertae sedis*, one species, type: *C. angustifoliorum* A.W. Ramaley, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), holotype: BPI 1102631, cultures and sequences are unavailable.

Clypeoceriospora Sousa da Câmara 1946, *Sordariomycetes* genera *incertae sedis*, one species, type: *C. rubi* Sousa da Câmara, asexual morph unknown,

saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Clypeochorella Petr. 1923, *Ascomycota* genera *incertae sedis*, one species, type: *C. orientalis* (Sacc. & Penz.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeococcum D. Hawksw. 1977, *Polycoccaceae*, *Trypetheliales*, *Dothideomycetes*, eleven species, type: *C. cladonema* (Wedd.) D. Hawksw., on lichens, widespread, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Dacampiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Ertz et al. (2015a; sequences two species, but not the type species, placed in *Polycoccaceae*), Jaklitsch et al. (2016a; accepted as a genus in *Dacampiaceae*), holotype of type: PC.

Clypeoloculus Kaz. Tanaka & K. Hiray. 2015, *Morosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *C. akitaensis* Kaz. Tanaka & K. Hiray., asexual morph unknown, saprobes, aquatic, Japan, see Tanaka et al. (2015; morphology, phylogeny), holotype and ex-type: HHUF 27557, CBS 139681.

Clypeolum Speg. 1881, *Ascomycota* genera *incertae sedis*, eight species, type: *C. atroareolatum* Speg., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeopatella Petr. 1942, *Ascomycota* genera *incertae sedis*, one species, type: *C. cylindrospora* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Rhodes, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeophialophora Bat. & Peres 1962, *Ascomycota* genera *incertae sedis*, one species, type: *C. erythroxyli* Bat. & Peres, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeophysalospora H.J. Swart 1981, *Clypeophysalosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *C. latitans* (Sacc.) H.J. Swart, asexual morph unknown, cosmopolitan, see Giraldo et al. (2017; phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Clypeoporthe Höhn. 1919, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *C. monocarpa* Höhn., asexual morphs unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Clypeoporthella Petr. 1924 (= *Batschiella* Kirschst. 1938 *fide* Species Fungorum 2017), *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *C. brencklei* Petr., asexual morphs unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Clypeopycnis Petr. 1925, *Ascomycota* genera *incertae sedis*, three species, type: *C. aeruginascens* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeopyrenis Aptroot 1991, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, two species, type: *C. microsperma* (Müll. Arg.) Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Clypeoseptoria F. Stevens & P.A. Young 1925, *Ascomycota* genera *incertae sedis*, three species, type: *C. rockii* F. Stevens & P.A. Young, coelomycetous, sexual morph unknown, saprobes, terrestrial, Hawaii, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeosphaerella Guatimosim, R.W. Barreto & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *C. quasiparkii* (Cheew., K.D. Hyde & Crous) Guatimosim, R.W. Barreto & Crous, asexual morph unknown, plant pathogenic, see Guatimosim et al. (2016a; morphology, phylogeny), holotype CBS H-22088, isotype VIC 42607, culture ex-type CPC 24705.

Clypeosphaeria Fuckel 1870 (= *Anthostoma* subgen. Entosordaria (Sacc.) Cooke 1889; = *Anthostomella* subgen. Entosordaria Sacc. 1882; = *Coccochorina* Hara 1927; = *Entosordaria* (Sacc.) Höhn. 1920; = *Stereosphaeria* Kirschst. 1939 *fide* Species Fungorum 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, c. 30 species, type: *C. notarisii* Fuckel, asexual morph unknown, saprobes (dead wood and bark), terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al.

(2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, treated as *Clypeosphaeriaceae*), Hongsanan et al. (2017a; phylogeny, evolution, treated *Clypeosphaeriaceae* as a synonym of *Xylariaceae*), cultures and sequences are unavailable for type species.

Clypeosphaerulina Sousa da Câmara 1939, *Sordariomycetes* genera *incertae sedis*, one species, type: *C. vincae* (Sousa da Câmara) Sousa da Câmara, asexual morph unknown, saprobes, terrestrial, Portugal, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Clypeostagonospora Punith. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *C. muhlenbergiae* Punith., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Clypeostroma Theiss. & Syd. 1914, *Dothideomycetes* genera *incertae sedis*, two species, type: *C. spilomeum* (Berk.) Theiss. & Syd., asexual morph unknown, saprobes, Australasia, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Coccidiascus Chatton emend. Lushbaugh, Rowton & McGhee 1976, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, one species, type: *C. legeri* Chatton, asexual reproduction by budding, perhaps parasitic on *Drosophila* spp., found within the intestinal epithelial cells of *Drosophila*, possibly worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coccidioides G.W. Stiles 1896 (= *Blastosporidium* M. Hartmann 1912; = *Megalocitosporides* Wernicke 1892; = *Posadasia* Cantón 1898; = *Pseudococcidioides* Fonseca 1928 *fide* Species Fungorum 2017), *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *C. immitis* G.W. Stiles, sexual morph unknown, saprobes, terrestrial, southern USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Coccidomyces Buchner 1912, *Saccharomycetidae* genera *incertae sedis*, *Saccharomycetes*, one species, type: *C. pierantonii* Buchner, asexual morphs unknown, in insects, terrestrial, Germany, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coccinonectria L. Lombard & Crous 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. pachysandricola* (B.O. Dodge) L. Lombard & Crous, asexual morph hyphomycetous, saprobes, France, USA, see Lombard et al. (2015b; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), available cultures of the type: CBS 501.63.

Cocciscia Norman 1870, *Dothideomycetes* genera *incertae sedis*, two species, type: *C. hammeri* Norman, asexual morph unknown, saprobes, Scandinavia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dacampiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Coccocarpia Pers. 1827 (= *Circinaria* Fée 1825 [1824]; = *Vischia* C.W. Dodge 1971 [1970] *fide* Species Fungorum 2017), *Coccocarpiaceae*, *Peltigerales*, *Lecanoromycetes*, c. 25 species, type: *C. molybdaea* Pers., asexual morph unknown, lichenized, epiphytic or epiphyllous, worldwide tropical-subtropical, see Wedin et al. (2009b; systematics), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Coccochora Höhn. 1909 (= *Coccochorella* Höhn. 1910 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *C. quercicola* (Henn.) Höhn., asexual morph unknown, saprobes, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Coccochorina Hara 1927, *Dothideomycetes* genera *incertae sedis*, two species, type: need typification, asexual morph unknown, saprobes, terrestrial, see Kirk et al. (2008; treated as a synonym of *Clypeosphaeria*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Coccodiella Hara 1910 (see Species Fungorum 2017 for synonyms), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, 21 species, type: *C. arundinariae* Hara, asexual morph unknown, biotrophic, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures available for *C. melastomatum* CMU78543, *C. miconiae* ppMP 1342.

Coccodinium A. Massal. 1860, *Coccodiniaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *C. bartschii* A. Massal., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Coccodiniaceae*; excluded family from *Dothideomycetes*), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Coccodothis Theiss. & Syd. 1914, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. sphaeroidea* (Cooke) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, Georgia, see Hofmann (2009;

review, accepted as a genus in *Parmulariaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Parmulariaceae*), Hyde et al. (2013; excluded from *Parmulariaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Coccogloeum Petr. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *C. microsporum* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coccoidea Henn. 1900 (= *Apiodothina* Petr. & Cif. 1932; = *Coccodiscus* Henn. 1904 *fide* Species Fungorum 2017), *Coccoideaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *C. quercicola* Henn. & Shirai, asexual morph unknown, saprobes, Japan, India, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Coccoideaceae*, morphology), cultures and sequences are unavailable.

Coccoidella Höhn. 1909 (= *Coccodothella* Theiss. & Syd. 1915; = *Eumycrocyclus* Hara 1915 *fide* Species Fungorum 2017), *Coccoideaceae*, *Dothideomycetes* families *incertae sedis*, seven species, type: *C. scutula* (Berk. & M.A. Curtis) Höhn., asexual morph unknown, saprobes, America, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Coccoideaceae*), cultures and sequences are unavailable.

Coccomyces De Not. 1847 (= *Coccomycella* Höhn. 1917; = *Malenconia* Bat. & H. Maia 1960 *fide* Species Fungorum 2017), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, 118 species, type: *C. coronatus* (Schumach.) De Not., asexual morph unknown, pathogens, worldwide, see Marincowitz et al. (2008; new species, morphology), Jia et al. (2011; new species, morphology), Li et al. (2014d, 2015b; new species, morphology), Moreno-Rico et al. (2014; new species, morphology), Wang et al. (2014c; new species, morphology), Li et al. (2015b; new species), sequences are available for *C. dentatus* and *C. strob*.

Coccomycetella Höhn 1917, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *C. belonospora* (Nyl.) Höhn, asexual morph unknown, epixylic, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Baloch et al. (2013; systematics), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), sequences are available.

Cocconia Sacc. 1889, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, c 25 species, type: *C. placenta* (Berk. & Broome) Sacc., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), Jayasiri et al. (2016a; re-visited), placement in *Parmulariaceae* supported by morphology, unknown, cultures are sequences unavailable.

Coccostromella Petr. 1968, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *C. puttemansii* (Henn.) Petr., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline, accepted as *Dothideaceae*), Hyde et al. (2013; accepted as a genus in *Dothideaceae*), Thambugala et al. (2014a; excluded from *Dothideaceae* and placed *Botryosphaeriaceae*), Wijayawardene et al. (2014c; outline, taxonomy), cultures and sequences are unavailable.

Coccotrema Müll. Arg. 1888 (= *Perforaria* Müll. Arg. 1891; = *Perforariomyces* Cif. & Tomas. 1953; = *Verrucaria* sect. Verrucarina Hue 1914; = *Verrucarina* (Hue) Zahlbr. 1931 [1932] *fide* Species Fungorum 2017), *Coccotremataceae*, *Pertusariales*, *Lecanoromycetes*, 16 species, type: *C. antarcticum* Müll. Arg., asexual morph unknown, lichenized, terricolous, saxicolous or epiphytic, world-wide in arctic and sub Antarctic areas, see Lumbsch and Huhndorf (2010), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available

Cochliomyces Speg. 1912, *Euceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *C. argentinensis* Speg., asexual morph unknown, biotrophic, Central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cocoicola K.D. Hyde 1995, *Phaeochoraceae*, *Phyllachorales*, *Sordariomycetes*, five species, type: *C. cylindrospora* (C. Booth & D.E. Shaw) K.D. Hyde, saprobes, worldwide, see Lumbsch and Huhndorf (2010), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Codinaea Maire 1937 (= *Menisporella* Agnihothr. 1962 *fide* Species Fungorum 2017), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, c. 80 species, type: *C. aristata Maire*, hyphomycetous, sexual morphs unknown, saprobes, terrestrial, tropical, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Almeida et al. (2014c; new species, Brazil), Crous et al. (2014d, 2015d; new species), Granados et al. (2014; new species, Costa Rica), Maharachchikumbura et al. (2015b, 2016b; outline), Xia et al. (2015a; new species, China), Barbosa et al. (2016; new species, Brazil), Oliveira et al. (2016b; new

species, Brazil, aquatic), cultures and sequences are available.

Codonmyces Calatayud & Etayo 1999, *Ascomycota* genera *incertae sedis*, one species, type: *C. lecanorae* Calat. & Etayo, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Spain, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: VAB (lich.) 15404, cultures and sequences are unavailable.

Coelodictyosporium Thambug. & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *C. pseudodictyosporium* (Qing Tian, Camporesi & K.D. Hyde) Thambug. & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Italy, all species has sequence data, see Thambugala et al. (2015b; phylogeny), Wijayawardene et al. (2016b; morphology, phylogeny), holotype: MFLU 14-0737, ex-type strains of type: MFLUCC 13-0451.

Coelopogon Brusse & Kärnefelt 1991, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *C. abraxas* Brusse, lichenized, south temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Coenogonium Ehrenb. ex Nees 1820 (see Species Fungorum 2017 for synonyms), *Coenogoniaceae*, *Ostropales*, *Lecanoromycetes*, 90 species, type: *C. linkii* Ehrenb., lichenized, see Baloch et al. (2010; taxonomy), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; DNA), Kirk et al. (2013; genus accepted), Joshi et al. (2015b; new species, key), Lücking et al. (2017a; classification), sequences are available.

Colemaniella Agnihothr. 1974, *Ascomycota* genera *incertae sedis*, one species, type: *C. ossoorii* Agnihothr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Colensoniella Hafellner 1979, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *C. torulispora* (W. Phillips) Hafellner, asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tian et al. (2014; morphology; nomenclature), cultures and sequences are unavailable.

Coleodictyospora Charles 1929 (= *Coleodictys* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. cubensis* Charles, hyphomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coleophoma Höhn. 1907 (= *Bactropycnis* Höhn. 1920; = *Coleonaema* Höhn. 1924; = *Rhabdostromellina* Höhn. 1917; = *Xenodomus* Petr. 1922 *fide* Species Fungorum 2017), *Dermateaceae*, *Helotiales*, *Leotiomycetes*, more than 35 species, type: *C. crateriformis* (Durieu & Mont.) Höhn., coelomycetous, sexual morph unknown, pathogenic, saprobes or endophytic on a wide host range, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2016a; new species), holotype of type: FH 00304449.

Coleoseptoria Petr. 1940, *Ascomycota* genera *incertae sedis*, one species, type: *C. ephedrae* (Auersw.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Germany, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coleosperma Ingold 1954, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. lacustre* Ingold, asexual morph unknown, saprobes, aquatic, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coleroa Rabenh. 1850 (= *Aphysa* Theiss. & Syd. 1917; = *Cyphospilea* Syd. 1926; = *Hormotheca* Bonord. 1864 *fide* Species Fungorum 2017), *Venturiaceae*, *Venturiales*, *Dothideomycetes*, eight species, type: *C. chaetomium* (Kunze) Rabenh., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; morphology, phylogeny), Hyde et al. (2013; accepted as in *Venturiaceae*, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence data available for *Coleroa robertiani* CBS 458.64.

Colipila Baral & Guy García 2012, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *C. masduguana* Baral & Guy Garcia, asexual morph unknown, saprobes, cosmopolitan, see Baral et al. (2012; taxonomy, phylogeny), holotype: M-014088, cultures and sequences are available.

Colispora Marvanová 1988, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *C. elongata* Marvanová, hyphomycetous, sexual morph unknown, saprobes, aquatic, worldwide, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences and cultures available for *Colispora elongata* (F-08382 *fide* Baschien et al. 2013).

Collarina Giraldo, Gené & Guarro 2012, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. aurantiaca* Giraldo, Gené & Guarro, hyphomycetous, sexual morph unknown, from water

sediment, aquatic, Spain, see Crous et al. (2014d; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Collema F.H. Wigg. [nom. cons.] 1780 (see Species Fungorum 2017 for synonyms), *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, 40 species, type: *C. lactuca* (Weber) Weber ex F.H. Wigg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Collematospora Jeng & Cain 1976, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, one species, type: *C. venezuelensis* Jeng & Cain, asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Collembolispora Marvanová & Pascoal 2003, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *C. barbata* Marvanová, Pascoal & Cássio, hyphomycetous, sexual morph unknown, saprobes, aquatic, Portugal, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2012c; new species, DNA, morphology), holotype and ex-type: IMI 389661, UMB-088.01.

Collemopsidium Nyl. 1881 (= *Collemopsidiomyces* Cif. & Tomas. 1953; = *Xanthoporina* C.W. Dodge 1948; = *Xanthopyrenia* Bachm. 1919 *fide* Species Fungorum 2017), *Xanthopyreniaceae*, *Collemopsidiales*, *Dothideomycetes*, c. 40 species (but the number could be higher), type: *C. iocarpum* (Nyl.) Nyl., molecular data suggest that the number of marine species has been largely underestimated (Pérez-Ortega et al. 2016), asexual morph coelomycetous, lichen-forming fungi, associated with cyanobacteria, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a, classification), Pérez-Ortega et al. (2016, phylogeny), lectotype of type: H-NYL 42858.

Colletoconis de Hoog & Aa 1978, *Ascomycota* genera *incertae sedis*, one species, type: *C. aecidiophila* (Speg.) de Hoog, Aa & U.P. Singh, coelomycetous, sexual morph unknown, saprobes, fungicolous, Argentina, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Colletogloeum Petr. 1953, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *C. sissoo* (Syd.) B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Crous et al. (2009f; taxonomy, phylogeny), Wijayawardene et al. (2012, 2016b, 2017; outline), Zhao and Zhao (2012; new species, China), cultures and sequences are available for unidentified species.

Colletotrichum Corda. 1831 (= *Glomerella* Spauld. & H. Schrenk 1903 *fide* Réblová et al. 2016c; see Species Fungorum 2017 for additional synonyms), *Glomerellaceae*, *Glomerellales*, *Sordariomycetes*, more than 800 species, type: *C. lineola* Corda, coelomycetous, sexual morph formerly known in *Glomerella*, pathogens, endophytes, saprobes, terrestrial and aquatic, worldwide, many species have molecular data including, the type species, sequence data available for accepted species, see Hyde et al. (2009, 2014; phylogeny, species number), Damm et al. (2010a, 2012a, b, 2013, 2014; species complexes, phylogeny), Cannon et al. (2012; phylogeny), O'Connell et al. (2012; pathogenic species), Peng et al. (2012; species in Citrus), Weir et al. (2012; phylogeny, species complex), Lima et al. (2013; pathogens), Manamgoda et al. (2013; endophytic species), Udayanga et al. (2013; pathogens), Vieira et al. (2014; endophytic species), Liu et al. (2015a; new species), Sharma et al. (2015b; *C. siamense* complex), Yan et al. (2015; species associated with grape wine diseases), Hou et al. (2016; new species), Huang et al. (2016b; genomics), Jayawardena et al. (2016b, c, d, e; new species, biocontrol, current status, secondary metabolities, on strawberry), Sharma and Shenoy (2016; methods), Marin-Felix et al. (2017; accepted species, phylogeny, new species), Tibpromma et al. (2017b; new species), epitype and culture ex-epitype of type species: CBS H-20362, CBS 1253376.

Collodiscula I. Hino & Katum. 1955 (= *Acanthodochium* Samuels et al. 1987 *fide* Réblová et al. 2016c), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *C. japonica* I. Hino & Katum., asexual morph hyphomycetous (*Acanthodochium*), saprobes, Japan, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch and Voglmayr (2012; phylogeny), Wijayawardene et al. (2012, 2017; outline), Stadler et al. (2013; one name), Li et al. (2015d; new species), Maharachchikumbura et al. (2015b, 2016b; outline, one name), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Collophorina Damm & Crous, ***nom. nov***. MycoBank MB821422

≡ *Collophora* Damm & Crous, Persoonia 24: 64. 2010. nom. illeg., [ICN (Melbourne) Art. 53.1], non *Collophora* Mart. 1830 (*Apocynaceae*).

Leotiomycetes genera *incertae sedis*, five species, coelomycetous, sexual morph unknown, endophytes, saprobes, plant pathogens, Baleares, Pacific Northwest regions (USA), South Africa, Germany, Iran, see Damm et al. (2010a; morphology, phylogeny), Gramaje et al. (2012; new species, phylogeny), Wijayawardene et al. (2012; outline), Xie et al. (2013; new species).

See Damm et al. (2010a) for illustrations, description and diagnoses.

Holotype: South Africa, Western Cape Province, Paarl, from wood of *Prunus persica*, 10 Jun. 2004, U. Damm, holotype CBS H-19992, ex-type strain of the type species *C. rubra*: CBS 120873 = STE-U 6109.

Collophorina aceris (J. Xie, Strobel & Geary) Damm & Crous, *comb. nov*. MycoBank MB 821434

≡ *Collophora aceris* J. Xie, Strobel & Geary, Microbial Ecology 66: 787. 2013.

Collophorina africana (Damm & Crous) Damm & Crous, *comb. nov*. MycoBank MB821423

≡ *Collophora africana* Damm & Crous, Persoonia 24: 65. 2010.

≡ *Collophora capensis* Damm & Crous, Persoonia 24: 67. 2010.

Collophorina hispanica (Gramaje, Armengol & Damm) Damm & Crous, *comb. nov*. MycoBank MB 821430

≡ *Collophora hispanica* Gramaje, Armengol & Damm, Persoonia 28: 9. 2012.

Collophorina paarla (Damm & Crous) Damm & Crous, *comb. nov*. MycoBank MB821427

≡ *Collophora paarla* Damm & Crous, Persoonia 24: 67. 2010.

≡ *Collophora pallida* Damm & Crous, Persoonia 24: 69. 2010.

Collophorina rubra (Damm & Crous) Damm & Crous, *comb. nov*. MycoBank MB821428

≡ *Collophora rubra* Damm & Crous, Persoonia 24: 69. 2010.

Notes: The genus *Collophora* Damm & Crous 2010 is illegitimate, being a later homonym of the plant genus *Collophora* Mart. 1830. In order to replace this name, the new name *Collophorina* nom. nov. is provided for this genus. Species of the genus are associated with black spots and dark brown to black streaking of the xylem tissues of woody plant hosts, and can cause wood necrosis (Gramaje et al. 2012; Arzanlou et al. 2016a); it was also collected from air samples (Fischer et al. 2017).

Collostroma Petr. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *C. gelatinosum* Petr., coelomycetous, sexual morph unknown, saprobes, Austria, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Colonomyces R.K. Benj. 1955, *Euceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *C. appendiculatus* R.K. Benj., asexual morph unknown, biotrophic, USA, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Colpoma Wallr. 1833 (= *Hysterium* Tode 1791; = *Pragmoparopsis* Höhn. 1917 *fide* Species Fungorum 2017), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, 14 species, type: *C. quercinum* (Pers.) Wallr., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lantz et al. (2011; phylogeny), Lee et al. (2016; antifungal properties), cultures and sequences are unavailable, available cultures for type: Lantz 368 (UPS).

Columnodomus Petr. 1941, *Ascomycota* genera *incertae sedis*, one species, type: *C. microsporus* Petr. coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Columnomyces R.K. Benj. 1955, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *C. ptomaphagi* R.K. Benj., asexual morph unknown, biotrophic, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Columnosphaeria Munk 1953, *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, c. four species, type: *C. sarothamni* Munk, asexual morph unknown, saprobes, terrestrial, worldwide, see Thambugala et al. (2015b; phylogeny), cultures and sequences are available.

Columnothyrium Bubák 1916, *Ascomycota* genera *incertae sedis*, one species, type: *C. myriospermum* (C. Massal.) Bubák, coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coma Nag Raj & W.B. Kendr. 1972 (= *Ascocoma* H.J. Swart 1987 *fide* Johnston et al. 2014b; Wijayawardene et al. 2016b), *Phacidiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *C. circularis* (Cooke & Massee) Nag Raj & W.B. Kendr., coelomycetous, sexual morph *Ascocoma*, saprobes, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Wijayawardene et al. (2016b; outline, one name, morphology), available specimens for type: BRIP 14753, cultures and sequences are unavailable.

Comatospora Piroz. & Shoemaker 1971, *Ascomycota* genera *incertae sedis*, one species, type: *C. suttonii* Piroz. & Shoemaker, coelomycetous, sexual morph unknown, saprobes, Canada, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Combea De Not. 1846, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *C. mollusca* (Ach.) Nyl., lichenized, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Roccellaceae*), Kirk et al. (2013; genus accepted), Ertz and Tehler (2011; taxonomy,

placed in *Opegraphaceae*), Lücking et al. (2017a; classification), sequences are available.

Comesella Speg. 1923, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. anomala* (Berk. & M.A. Curtis) Speg., asexual morph unknown, saprobes, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Comesia Sacc. 1884, *Helotiales* genera *incertae sedis*, three species, type: *C. felicitatis* (P. Crouan & H. Crouan) Sacc., asexual morph unknown, saprobes, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Comminutispora A.W. Ramaley 1996 (= *Hyphospora* A.W. Ramaley 1996 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Dothideomycetes* genera *incertae sedis*, one species, type: *C. agavacearum* A.W. Ramaley, asexual morph hyphomycetous (*Hyphospora*), saprobes, USA, see Lumbsch and Huhndorf (2010; outline; accepted as *Planistromellaceae*), Hyde et al. (2013; did not accept as *Planistromellaceae*); Wijayawardene et al. (2014c; outline, nomenclature), Rossman et al. (2015b; nomenclature), holotype: BPI 802958, cultures and sequences are unavailable.

Comocephalum Syd. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *C. vismiae* Syd., coelomycetous, sexual morph unknown, saprobes, Ecuador, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Comoclathris Clem. 1909 (= *Platyspora* Wehm. 1961 *fide* Species Fungorum 2017), *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, 26 species, type: *C. lanata* Clem., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline; accepted as a genus in *Diademaceae*), Hyde et al. (2013; accepted as *Diademaceae*) Wijayawardene et al. (2014c; outline; accepted as a genus in *Diademaceae*), Ariyawansa et al. (2015c; morphology, accepted as *Pleosporaceae*), Li et al. (2016a; new species, Russia), Thambugala et al. (2017b, new species, phylogeny), holotype of the type: COLO 62872, sequences are available.

Complexipes C. Walker 1979, *Ascomycota genera incertae sedis*, two species, type: *C. moniliformis* C. Walker, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011 morphology, accepted as a genus in *Otideaceae*, *Pezizales*), Wijayawardene et al. (2012; outline, accepted as a genus in *Pyronemataceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; transferred to *Ascomycota genera incertae sedis*), cultures and sequences are unavailable.

Compositrema Rivas Plata, Lücking & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *C. cerebriforme* J.E. Hern. & Lücking, lichenized, see Rivas Plata et al. (2012b), Kraichak et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Compsocladium I.M. Lamb 1956, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *C. archboldianum* I.M. Lamb, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Compsomyces Thaxt. 1894 (= *Moschomyces* Thaxt. 1894 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, seven species, type: *C. verticillatus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Condylospora Nawawi 1976, *Ascomycota* genera *incertae sedis*, four species, type: *C. spumigena* Nawawi, hyphomycetous, saprobes, on decaying leaves, aquatic, Brazil, Malaysia, Poland, Puerto Rico, Republic of Cameroon, Venezuela, Vietnam, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Fiuza et al. (2015c; first record from Amazon), sequence data available for one species, compare with *Angulospora*, isotype of type: IMI 193709.

Coniambigua Etayo & Diederich 1995, *Ascomycota* genera *incertae sedis*, one species, type: *C. phaeographidis* Etayo & Diederich, coelomycetous, sexual morph unknown, lichenicolous, non-lichenized, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2016b, 2017; morphology, outline), Kirk et al. (2013; genus accepted), holotype: MA (Lich.), Etayo 4215, sequence data of type species is unavailable.

Coniangium Fr. 1821 (see Species Fungorum 2017 for synonyms), *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *C. vulgare* Fr., lichenized, see Lumbsch and Huhndorf (2010; outline), Sundin et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Coniarthonia Grube 2001, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, seven species, type: *C. pyrrhula* (Nyl.) Grube, lichenized, see Lumbsch and Huhndorf (2010; outline), Aptroot et al. (2015a; phylogeny), Lücking et al. (2017a; classification), sequences are available but lacking for the type.

Conicomyces R.C. Sinclair, Eicker & Morgan-Jones 1983, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, four species, type: *C. transvaalensis* R.C. Sinclair, Eicker & Morgan-Jones, hyphomycetous,

worldwide, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species, morphology, DNA), sequences are available for *C. pseudotransvaalensis* (HHUF 29956 *fide* Liu et al. 2015a).

Conidiascus Holterm. 1898, *Saccharomycetes* genera *incertae sedis*, one species, type: *C. paradoxus* Holterm., asexual morphs unknown, terrestrial, Java, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Conidiotheca Réblová & L. Mostert 2007, *Calosphaeriaceae*, *Calosphaeriales*, *Sordariomycetes*, one species, type: *C. tympanoides* (M.E. Barr) Réblová & L. Mostert, asexual morph unknown, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), holotype: holotype of *Romellia tympanoides*, NY.

Coniella Höhn. 1918 (= *Anthasthoopa* Subram. & K. Ramakr. 1956; = *Baeumleria* Petr. & Syd. 1927; = *Cyclodomella* P.N. Mathur, V.V. Bhatt & Thirum. 1959; = *Embolidium* Bat. 1964; = *Pilidiella* Petr. & Syd. 1927; = *Schizoparme* Shear 1923 *fide* Alvarez et al. 2016; Species Fungorum 2017), *Schizoparmaceae*, *Diaporthales*, *Sordariomycetes*, 29 species, type: *C. pulchella* Höhn., coelomycetous, sexual morph formerly known in *Schizoparme*, saprobes, pathogens, terrestrial, widespread, see Crous et al. (2015c; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), Alvarez et al. (2016; revision, nomenclature, treated *Schizoparme* and *Pilidiella* as synonyms), Wijayawardene et al. (2016b; morphology, phylogeny), cultures and sequences are available.

Coniobrevicolla Réblová 1999, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, one species, type: *C. larsenii* Réblová, asexual morph unknown, terrestrial, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Coniocarpon DC. 1805 (see Species Fungorum 2017 for synonyms), *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, five species, type: *C. cinnabarinum* DC., lichenized, see Sundin et al. (2012; taxonomy), Frisch et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Coniocessia Dania García, Stchigel, D. Hawksw. & Guarro 2006, *Coniocessiaceae*, *Xylariales*, *Sordariomycetes*, five species, type: *C. nodulisporioides* (D. Hawksw.) Dania García, Stchigel, D. Hawksw. & Guarro, asexual morph hyphomycetous (nodulisporium-like), terrestrial, saprobes, coprophilous, from soil, Jordan, Iran, Spain, see Lumbsch and Huhndorf (2010; outline), Asgari and Zare (2011; new species, DNA), Senanayake et al. (2015; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: IMI 204247 (as *Coniochaeta nodulisporioides* D. Hawksw.), sequence data and cultures available.

Coniochaeta (Sacc.) Cooke 1887 (= *Lecythophora* Nannf. 1934 *fide* Réblová et al. 2016c; see Species Fungorum 2017 for additional synonyms), *Coniochaetaceae*, *Coniochaetales*, *Sordariomycetes*, 78 species, type: *C. ligniaria* (Grev.) Cooke, asexual morph formerly known in *Lecythophora*, terrestrial, aquatic, saprobes, coprophilous, widespread, see Damm et al. (2010b; South Africa, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; phylogeny), Réblová et al. (2016c; nomenclature), no ex-type but none-type cultures of the type species are available.

Coniolariella Dania García, Stchigel & Guarro 2006, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, eight species, type: *C. limonispora* (Ellis & Everh.) Checa, Arenal & J.D. Rogers, asexual morph rhinocladiella-like, saprobes, worldwide, see Checa et al. (2008; new species), Lumbsch and Huhndorf (2010; outline), Zare et al. (2010; new species, morphology), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype: IRAN 12363F (as *Coniochaeta gamsii* Asgari & Zare), sequence data available.

Conioscypha Höhn. 1904 (= *Conioscyphascus* Réblová & Seifert 2004; = *Cylicogone* Emden & Veenb.-Rijks 1974 [1973] *fide* Maharachchikumbura et al. 2016b; Réblová et al. 2016c; Species Fungorum 2017), *Conioscyphaceae*, *Conioscyphales*, *Sordariomycetes*, twelve species, type: *C. lignicola* Höhn., sexual morph formerly known in *Conioscyphascus*, saprobes, terrestrial, worldwide, see Crous et al. (2014c; new species, DNA), Zelski et al. (2014; new species), Maharachchikumbura et al. 2015b, 2016b; outline, phylogeny), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Conioscyphopsis Goh & K.D. Hyde 1998, *Ascomycota* genera *incertae sedis*, one species, type: *C. australiensis* Goh & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, Australia, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coniosporium Link 1809, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, c. 20 species, type: *C. olivaceum* (Link) Tubaki, hyphomycetous, sexual morph unknown, saprobes, cosmopolitan, see Li et al. (2008a; new species), Seifert et al. (2011 morphology), Tsuneda et al. (2011a, b;

phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), cultures and sequences are available.

Coniothyrina Syd. & P. Syd. 1912 (= *Coniothyriella* Speg. 1911; = *Coniothyris* Clem. 1909 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. agavicola* (Speg.) Syd., coelomycetous, sexual morph unknown, saprobes, subtropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coniothyrium Corda 1840 (= *Clisosporium* Fr. 1819; = *Coniothyrinula* Petr. 1923; = *Cyclobium* C. Agardh 1821; = *Dactuliochaeta* G.L. Hartm. & J.B. Sinclair 1988; = *Monoplodia* Westend. 1859 *fide* de Gruyter et al. 2012; Species Fungorum 2017), *Coniothyriaceae*, *Pleosporales*, *Dothideomycetes*, c. 50 species, type: *C. palmarum* Corda, coelomycetous, terrestrial, pathogens, saprobes, worldwide, see de Gruyter et al. (2012; phylogeny, generic concept) Verkley & Gruyter), Crous et al. (2013b, 2016a; new species), Hyde et al. (2013; morphology), Verkley et al. (2014; phylogeny), Wijayawardene et al. (2016b; morphology, phylogeny), Thambugala et al. 2017b; new species, phylogeny), cultures and sequences are available, reference culture for type: CBS 400.71.

Coniozyma Crous 2008, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. leucospermi* (Crous & Denman) Crous, coelomycetous, terrestrial, pathogens, saprobes, South Africa, see Marincowitz et al. (2008; morphology), Wijayawardene et al. (2017; outline), holotype and ex-type: PREM 55348, CBS 114035 = STE-U 2852.

Conjunctospora Udagawa & Uchiy. 1999, *Ascomycota* genera *incertae sedis*, one species, type: *C. vesiculifera* Udagawa, Uchiy. & Kamiya, hyphomycetous, sexual morph unknown, saprobes, Japan, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: CBM, Uchiyama SUM3064, cultures and sequences are unavailable.

Conlarium F. Liu & L. Cai 2012, *Sordariomycetes* genera *incertae sedis*, one species, type: *C. dupliciascosporum* F. Liu & L. Cai, sexual morph unknown, terrestrial, pathogens, saprobes, China, see Liu et al. (2012a; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type: HMAS243129, CGMCC3.14939 = GD34-5-2.

Connersia Malloch 1974, *Pseudeurotiaceae*, *Leotiomycetes* families *incertae sedis*, one species, type: *C. rilstonei* (C. Booth) Malloch, asexual morph unknown, saprobes, British Isles, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), available cultures of the type: CBS 537.74, AFTOL-ID 1264.

Conoideocrella D. Johnson, G.H. Sung, Hywel-Jones & Spatafora 2009, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, type: *C. luteorostrata* (Zimm.) D. Johnson, G.H. Sung, Hywel-Jones & Spatafora, two species, asexual morph unknown, saprobes, cosmopolitan, see Johnson et al. (2009; morphology, phylogeny), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Conoplea Pers. 1797 (= *Botryoxylon* Cif. 1962; = *Streblocaulium* Chevall. 1837; = *Streptothrix* Corda 1839 *fide* Species Fungorum 2017), *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, eleven species, type: *C. sphaerica* (Pers.) Pers., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Marincowitz et al. (2008; DNA), Rivera-Orduña et al. (2011; DNA), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Conostomatium Doweld 2013 (= *Conostoma* Bat. & J.L. Bezerra 1965 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. oenocarpi* (Bat. & J.L. Bezerra) Doweld, asexual morph unknown, fossil *Pteridospermae*, see Index Fungorum (2017).

Conostroma Moesz 1921 (= *Discosporella* Höhn. 1927 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *C. didymum* (Fautrey & Roum.) Moesz (current name: *Colpoma quercinum* (Pers.) Wallr. *fide* Species Fungorum 2017), coelomycetous, sexual morph unknown, saprobes, Asia, see Wijayawardene et al. (2012, 2017; outline), Zhao and Zhao (2012; new species, China), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Conotremopsis Vězda 1977, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *C. weberiana* Vězda, lichenized, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Consetiella Hol.-Jech. & Mercado 1982, *Ascomycota* genera *incertae sedis*, one species, type: *C. solida* (Berk. & M.A. Curtis) Hol.-Jech. & Mercado, hyphomycetous, sexual morph unknown, saprobes, Cuba, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Constantinomyces Egidi & Onofri 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *C. virgultus* Egidi & Onofri, hyphomycetous, sexual morph unknown, rock-inhabiting, Spain, see Egidi

et al. (2014; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: CBS 117930 = TRN 79.

Constrictolumina Lücking, M.P. Nelsen & Aptroot 2015, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, nine species, type: *C. cinchonae* (Ach.) Lücking, M.P. Nelsen & Aptroot, lichenized, see Nelsen et al. (2014a; taxonomy), Aptroot and Lücking (2016; taxonomy) Lücking et al. (2017a, b; taxonomy), sequences are available.

Cookeina Kuntze 1891 (= *Boedijnopeziza* S. Ito & S. Imai, Trans. 1937; = *Peziza* sect. *Trichoscypha* Cooke 1879; = *Pilocratera* Henn. 1891 [1892]; = *Trichoscypha* (Cooke) Sacc. 1889 *fide* Species Fungorum 2017), *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, 13 species, type: *C. tricholoma* (Mont.) Kuntze, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ekanayaka et al. (2016c; revision), Tibpromma et al. (2017b; reference specimen), cultures and sequences are available.

Cookella Sacc. 1878 (= *Ascomycetella* Peck 1881; = *Phaneroascus* Baudyš 1919 *fide* Species Fungorum 2017), *Cookellaceae*, *Dothideomycetes* families *incertae sedis*, seven species, type: *C. microscopica* Sacc., asexual morph unknown, parasites, fungicolous, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Cooksonomyces H.J. Swart & D.A. Griffiths 1974, *Ascomycota* genera *incertae sedis*, one species, type: *C. banksiae* H.J. Swart & D.A. Griffiths, coelomycetous, sexual morph unknown, saprobes, Australia, see Kirk et al. (2008), however Kirk et al. (2013) did not list, cultures and sequences are unavailable.

Cophinforma Doilom, J.K. Liu & K.D. Hyde 2012, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, three species, type: *C. eucalypti* Doilom, J.K. Liu & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, South Africa, USA, Thailand, see Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; taxonomy, new species, phylogeny), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline), holotype and ex-type of the type: MFLU 12-0752, MFLUCC 11-0425.

Coppinsia Lumbsch & Heibel 1998, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, one species, type: *C. minutissima* Lumbsch & Heibel, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hodkinson and Lendemer (2011b; taxonomy), Lücking et al. (2017a; classification), sequences unavailable.

Coprobolus Cain & Kimbr. 1970, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, one species, type: *C. poculiformis* Cain & Kimbr., asexual morph unknown, coprophilous, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Copromyces N. Lundq. 1967, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *C. bisporus* N. Lundq., asexual morph unknown, coprophilous, terrestrial, Sweden, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Coprotiella Jeng & J.C. Krug 1976, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. gongylospora* Jeng & J.C. Krug, asexual morph unknown, coprophilous, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Coprotus Korf & Kimbr. 1967 (= *Leporina* Velen. 1947 *fide* Species Fungorum 2017), *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, 29 species, type: *C. sexdecimsporus* (P. Crouan & H. Crouan) Kimbr. & Korf, asexual morph unknown, cup-fungus, saprobes or plant pathogenic, widespread, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Corallicola Volkm.-Kohlm. & Kohlm. 1992, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *C. nana* Volkm.-Kohlm. & Kohlm., asexual morph unknown, saprobes, marine, Belize, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures are unavailable, holotype of type: J.K. 5004 = 01594700, NYBG.

Corallocytostroma Y.N. Yu & Z.Y. Zhang 1980, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. oryzae* Y.N. Yu & Z.Y. Zhang, coelomycetous, saprobes or plant pathogenic, widespread, sequence data available only for *C. ornithocopreoides*, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline).

Corallomycetella Henn. 1904 (= *Corallomyces* Berk. & M.A. Curtis 1854 [1853]; = *Rhizostilbella* Wolk 1914 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, type: *C. heinsenii* Henn., three species, asexual morph hyphomycetous, terrestrial, saprobes, associated with diseased plants, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Herrera et al. (2013; new

species, revision), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Corallonectria C. Herrera & P. Chaverri 2013, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. jatrophae* (Möller) C. Herrera & P. Chaverri, asexual morph hyphomycetous, terrestrial, saprobes, associated with diseased plants, cosmopolitan, see Herrera et al. (2013; new species, revision), Lombard et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Cordana Preuss 1851 (= *Porosphaerella* E. Müll. & Samuels 1982; = *Preussiaster* Kuntze 1891; = *Pseudobotrytis* Krzemien. & Badura 1954; = *Umbellula* E.F. Morris 1955 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Cordanaceae*, *Coniochaetales*, *Sordariomycetes*, eight species, type: *C. pauciseptata* Preuss, hyphomycetous, saprobes or plant pathogenic, widespread, sequence data available for all species, see Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2014b; phylogeny), Zelski et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), Hongsanan et al. (2017a; phylogeny, evolution), Wijayawardene et al. (2017; outline), ex-type: IMI 232041a; holotype of type: CBS H-21148.

Cordierites Mont. 1840 (= *Phyllomyces* Lloyd 1920 [1921] *fide* Species Fungorum 2017), *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *C. guianensis* Mont., asexual morph unknown, saprobes, worldwide, see Kirk et al. (2013; genus accepted), Lumbsch and Huhndorf (2010; outline), Peterson and Pfister (2010; DNA, phylogeny), cultures and sequences are available.

Cordyceps Fr. 1818, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, c. 500 species, type: *C. militaris* (L.) Fr., asexual morph unknown, on insect, widespread, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Sanjuan et al. (2015; phylogeny), Tasanathai et al. (2016; new species), cultures and sequences are available.

Coremiella Bubák & Krieg. 1912, *Ascomycota* genera *incertae sedis*, one species, type: *C. cystopodoides* Bubák & Krieg., hyphomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence data available for unidentified species.

Coreomyces Thaxt. 1903 (= *Paracoreomyces* R.A. Poiss. 1929 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 21 species, type: *C. corisae* Thaxt., asexual morph unknown, biotrophic, worldwide, see Lee and Na (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coreomycetopsis Thaxt. 1920, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *C. oedipus* Thaxt., asexual morph unknown, biotrophic (on termites), West Indies, USA, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Corethromyces Thaxt. 1892 (= *Eucorethromyces* Thaxt. 1900; = *Rhadinomyces* Thaxt. 1893 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 82 species, type: *C. cryptobii* Thaxt., asexual morph unknown, biotrophic, West Indies, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Corethrostroma Kleb. 1933, *Ascomycota* genera *incertae sedis*, one species, type: *C. laricis* Kleb., coelomycetous, sexual morph unknown, saprobes, Europe, see Kirk et al. (2013; genus accepted), sequence data available for unidentified species.

Cornicularia (Schreb.) Ach. 1794 (= *Lichen* sect. *Cornicularia* Schreb. 1791 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *C. tristis* (Weber ex F.H. Wigg.) Hoffm., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Cornicularia**ella** P. Karst. 1884 (= *Chondropodium* Höhn. 1916; = *Collonaemella* Höhn. 1915; = *Cornularia* Sacc. 1884 *fide* Species Fungorum 2017), *Dermateaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. abietis* P. Karst., coelomycetous, sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence data available for *C. brasiliensis* but type species lack sequences.

Cornipulvina Huhndorf, A.N. Mill., F.A. Fernández & Lodge 2005, *Boliniaceae*, *Boliniales*, *Sordariomycetes*, one species, type: *C. ellipsoides* Huhndorf, A.N. Mill., F.A. Fernández & Lodge, asexual morphs unknown, saprobes, terrestrial, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Cornucopiella Höhn. 1915 (= *Clavularia* P. Karst. 1882 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *C. mirabilis* Höhn., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline),

Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cornuntum Velen. 1947, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. fagineum* Velen., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; treated as a synonym of *Strossmayeria* Schulzer), cultures and sequences are unavailable.

Cornutispora Piroz. 1973, *Ascomycota* genera *incertae sedis*, five species, type: *C. limaciformis* Piroz., coelomycetous, sexual morph unknown, lichenicolous, worldwide, see Etayo (2010a; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cornutostilbe Seifert 1990, *Ascomycota* genera *incertae sedis*, five species, type: *C. medusa* Seifert, hyphomycetous, sexual morph unknown, from soil, saprobes, Indonesia, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: BO 14356.

Cornuvesica C.D. Viljoen, M.J. Wingf. & K. Jacobs 2000, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, four species, type: *C. falcata* (E.F. Wright & Cain) C.D. Viljoen, M.J. Wingf. & K. Jacobs, asexual morph chalara-like, from soil, saprobes, Europe, N. America, South Africa, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Marincowitz et al. (2015; new species, morphology, phylogeny), sequences are available for all species.

Corollospora Werderm. 1922 (= *Halosigmoidea* Nakagiri et al. 2009; *Peritrichospora* Linder 1944; = *Varicosporina* Meyers & Kohlm. 1965 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, 25 species, type: *C. maritima* Werderm., asexual morph hyphomycetous, saprobes, marine, worldwide, see Abdel-Wahab et al. (2009; new species, phylogeny), Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; diversity), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Coronatomyces Dania García, Stchigel & Guarro 2004, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. cubensis* Dania García, Stchigel & Guarro, asexual morph unknown, saprobes, terrestrial, Cuba, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type: IMI 385316, FMR 7132.

Coronellaria (P. Karst.) P. Karst. 1870 (= *Aquarella* Velen. 1947; = *Peziza* sect. Coronellaria P. Karst. 1869 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *C. delitschiana* (Auersw.) P. Karst., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coronopapilla Kohlm. & Volkm.-Kohlm. 1990, *Zopfiaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *C. avellina* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Jones et al. (2009b, 2015; classification), Suetrong et al. (2009; morphology), Alias et al. (2010; diversity), Besitulo et al. (2010; diversity), Lee et al. (2012; checklist, Malaysia), Zhang et al. (2012e; morphology), Hyde et al. (2013; morphology, outline), Wijayawardene et al. (2014c; outline), holotype and ex-isotype: J.K. 5144a (IMS), J.K. 5144b (IMS 330805).

Coronophora Fuckel 1864 (= *Cryptosphaerella* Sacc. 1882 *fide* Species Fungorum 2017), *Coronophoraceae*, *Coronophorales*, *Sordariomycetes*, five species, type: *C. gregaria* Fuckel, asexual morph unknown, saprobes, terrestrial, Europe, see Mugambi and Huhndorf (2010; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline; phylogeny), available cultures of type: ANM1555 (*fide* Mugambi and Huhndorf 2010).

Coronophorella Höhn. 1909 (see Species Fungorum 2017 for synonyms), *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *C. chaetomioides* (Penz. & Sacc.) Höhn., asexual morph unknown, saprobes, Indonesia, see Kirk et al. (2008; treated as a synonym of *Nitschkia*), Mugambi and Huhndorf (2010; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), available cultures of type: GKM1099.

Coronoplectrum Brusse 1987, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *C. namibicum* Brusse, lichenized, see Thell et al. (2012; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Corticifraga D. Hawksw. & R. Sant.1990, *Ostropales* genera *incertae sedis*, *Lecanoromycetes*, eight species, type: *C. peltigerae* (Fuckel) D. Hawksw. & R. Sant., lichenicolous, terrestrial, widespread, asexual morph unknown, see Zhurbenko (2009; new species, review), Etayo and Sancho (2008; new species), Spribille et al. (2010; new species), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; outline), Pino-Bodas et al. (2017; phylogeny), cultures and sequences are available, holotype: ?G and isotypes K(M)-IMI and S.

Corticiruptor Wedin & Hafellner 1998, *Lecanoromycetes* genera *incertae sedis*, two species, type: *C. abeloneae* (P.M. Jørg.) Wedin & Hafellner, asexual morphs unknown, lichenicolous, terrestrial,

Europe, see Etayo and Sancho (2008; new species), Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Corticorygma M. Cáceres, Feuerstein, Aptroot & Lücking 2016, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *C. stellatum* M. Cáceres, Feuerst., Aptroot & Lücking, lichenized, see Cáceres et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Corylomyces Stchigel, M. Calduch & Guarro 2006, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, type: one species, *C. selenosporus* Stchigel, M. Calduch & Guarro, asexual morph unknown, saprobes, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type culture of type: ILLS 57506, FMR 8279.

Corylophomyces R.K. Benj. 1994, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 82 species, type: *C. sericoderi* (Santam.) R.K. Benj., asexual morph unknown, biotrophic, West Indies, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Corynascella Arx & Hodges 1975, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, seven species, type: *C. humicola* Arx & Hodges, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), van den Brink et al. (2012; DNA), Maharachchikumbura et al. (2015b, 2016b; outline), Wang et al. (2016c; DNA), sequences are available.

Corynecercospora V.K. Pal, Akhtar, N. Ahmad, Kamal & D.K. Agarwal 2006, *Ascomycota* genera *incertae sedis*, one species, type: *C. teraiensis* V.K. Pal, Akhtar, N. Ahmad, Kamal & D.K. Agarwal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, temperate regions, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Corynecystis Brusse 1985, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *C. capensis* Brusse, lichenized, South Africa, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Corynelia Ach. ex Fr. 1818 (= *Alboffia* Speg. 1898 [1899]; = *Endohormidium* Auersw. & Rabenh. 1869 *fide* Species Fungorum 2017), *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, nine species, type species: *C. uberata* Fr., asexual morph unknown, but spermogonia often produced, terrestrial, parasitic on members of the plant family *Podocarpaceae*, Africa, Central and South America, Japan, Oceania, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wood et al. (2016; phylogeny, new species, proposal of the subclass *Coryneliomycetidae*), epitype: PREM 61207.

Coryneliella Har. & P. Karst. 1890, *Ascomycota* genera *incertae sedis*, one species, type: *C. consimilis* Har. & P. Karst., asexual morph unknown, saprobes, terrestrial, Mauritius, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Coryneliopsis Butin 1972, *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, two species, type species: *C. cupulifera* Butin, asexual morph unknown, terrestrial, always associated with members of *Cyttaria* Berk. which parasitize *Nothofagus* spp., Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wood et al. (2016; morpho taxonomy), cultures and sequences are unavailable.

Coryneliospora Fitzp. 1942, *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, two species, type: *C. fructicola* (Pat.) Fitzp., asexual morph unknown, but spermogonia often produced, terrestrial, parasitic on fruits of *Rapanea* Aubl. and *Myrsine* L., China, India, New Guinea, South Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wood et al. (2016; morpho taxonomy), cultures and sequences are unavailable.

Corynespora Güssow 1906 (= *Corynesporasca* Sivan. 1996 *fide* Rossman et al. 2015b), *Corynesporascaceae*, *Pleosporales*, *Dothideomycetes*, more than 130 species, type: *C. mazei* Güssow, hyphomycetous, sexual morph formerly known in *Corynesporasca*, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline, sexual morph), Zhang et al. (2009d; phylogeny), Ma et al. (2011c; new species), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Rossman et al. (2015b; nomenclature), sequences are available for two species, type sequence data are not available.

Corynesporella Munjal & H. S. Gill 1961, *Ascomycota* genera *incertae sedis*, ten species, type: *C. urticae* Munjal & H.S. Gill, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011 morphology), Zhang et al. (2012f; new species), Ma et al. (2012g; new species), Xia et al. (2014a; new species; key to species), cultures and sequences are unavailable.

Corynesporina Subram. 2009 (= *Corynesporina* Subram. 1994 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. elegans* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Singapore, see Gams et al. (2009; taxonomy), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), holotype: MUBL 3523, cultures and sequences are unavailable.

Corynesporopsis P. M. Kirk 1981 (= *Monotretomyces* Morgan-Jones, R.C. Sinclair & Eicker 1987 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 15 species, type: *C. quercicola* (Borowska) P.M. Kirk,

hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Castañeda-Ruiz et al. (2010d; new species), Seifert et al. (2011 morphology), Ma et al. (2010a, 2012b; new species, China), Wijayawardene et al. (2012, 2017; outline), Hernández-Restrepo et al. (2014b; new species), Xia et al. (2013a, 2014b; new species), Kirschner (2015; new species), and sequences are available but lacking for the type species.

Coryneum Nees 1816 (= *Murogenella* Goos & E.F. Morris 1965; = *Pseudovalsa* Ces. & De Not. 1863 *fide* Rossman et al. 2015a; Species Fungorum 2017), *Pseudovalsaceae*, *Diaporthales*, *Sordariomycetes*, c. 30 species, type: *C. umbonatum* Nees, sexual morph *Pseudovalsa*, pathogens, saprobes, terrestrial, temperate regions, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology, new species), Kirk et al. (2013; genus accepted), Rossman et al. (2015a; nomenclature), cultures and sequences are unavailable.

Coscinocladium Kunze 1846, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, two species, type: *C. occidentale* Kunze, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Cosmariospora Sacc. 1880, *Ascomycota* genera *incertae sedis*, one species, type: *C. bizzozeriana* Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cosmospora Rabenh. 1862 (= *Chrysogluten* Briosi & Farneti 1904 *fide* Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 50 species, type: *C. coccinea* Rabenh., asexual morph acremonium-like, on fruiting bodies and stromata of other fungi or isolated from soil, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Costanetoa Bat. & J.L. Bezerra 1963, *Ascomycota* genera *incertae sedis*, one species, type: *C. caryotae* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Crandallia Ellis & Sacc. 1897, *Ascomycota* genera *incertae sedis*, four species, type: *C. juncicola* Ellis & Sacc., coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, ?worldwide, see Marincowitz et al. (2008; new species), Wijayawardene et al. (2012, 2017; outline), Rossman et al. (2016b; new combinations for pathogens), cultures and sequences are unavailable.

Craneomyces Morgan-Jones, R.C. Sinclair & Eicker 1987, *Ascomycota* genera *incertae sedis*, one species, type: *C. verrucosus* Morgan-Jones, R.C. Sinclair & Eicker, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Craspedodidymum Hol.-Jech. 1972, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, twelve species, type: *C. elatum* Hol.-Jech., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Ma et al. (2011c; new species), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Mel'nik et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Crassicarpon Y. Marín, Stchigel, Guarro & Cano 2015, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *C. thermophilum* (Fergus & Sinden) Y. Marín, Stchigel, Guarro & Cano, asexual morph hyphomycetous, from soil, USA, see Maharachchikumbura et al. (2015b, 2016b; outline), Marin-Felix et al. (2015; taxonomy, phylogeny), cultures and sequences are available.

Crassimassarina A. Hashim. & Kaz. Tanaka 2017, *Lophiotremataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. macrospora* A. Hashim. & Kaz. Tanaka, asexual morph coelomycetous, saprobes, Asia, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Crassiparies M. Matsum., K. Hiray. & Kaz. Tanaka 2016, *Pleosporales incertae sedis*, *Dothideomycetes*, one species, type: *C. quadrisporus* M. Matsum., K. Hiray. & Kaz. Tanaka, asexual morph unknown, saprobes, terrestrial, Japan, see Li et al. (2016a; morphology, phylogeny), holotype and ex-type: HHUF 30409, MAFF 245408.

Crassoascus Checa, Barrasa & A.T. Martínez 1993, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *C. fusisporus* Checa, Barrasa & A.T. Martínez asexual morph unknown, saprobes, terrestrial, Argentina, Spain, see Lumbsch and Huhndorf (2010; outline), Catania and Romero (2012; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, treated as *Clypeosphaeriaceae*), Hongsanan et al. (2017a; phylogeny, evolution, treated *Clypeosphaeriaceae* as a synonym of *Xylariaceae*), holotype: MA-Fungi 26331, cultures and sequences are unavailable.

Crassochaeta Réblová 1999, *Chaetosphaerellaceae*, *Coronophorales*, *Sordariomycetes*, two species, type:

C. nigrita (Sacc.) Réblová, asexual morph unknown, saprobes, terrestrial, Argentina, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype: K37405, cultures and sequences are available.

Cratiria Marbach 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 20 species, type: *C. lauri-cassiae* (Fée) Marbach, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Crauatamyces Viégas 1944, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. eupatorii* Viégas, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Creodiplodina Petr. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *C. fusispora* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Creographa A. Massal. 1860 (see Species Fungorum 2017 for synonyms), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 30 species, type: *C. brasiliensis* A. Massal., lichenized, see Rivas Plata et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Creonecte Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *C. biparasitica* Petr., coelomycetous, sexual morph unknown, fungicolous (on *Uredo*), terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Creoseptoria Petr. 1937, *Ascomycota* genera *incertae sedis*, one species, type: *C. watzlii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Caucasus, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Creosphaeria Theiss. 1910, *Lopadostomataceae*, *Xylariales*, *Sordariomycetes*, two species, type: *C. sassafras* (Schwein.) Y.M. Ju, F. San Martín & J.D. Rogers, asexual morph unknown, saprobes, terrestrial, Argentina, Spain, see Lumbsch and Huhndorf (2010; outline), Raja et al. (2011a; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Sir et al. (2016; DNA), Wendt et al. (2017; transferred to *Lopadostomataceae*), cultures and sequences are available.

Creothyriella Bat. & C.A.A. Costa 1957, *Ascomycota* genera *incertae sedis*, one species, type: *C. sideroxyfoliae* Bat. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cresponea Egea & Torrente 1993, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 21 species; type: *C. premnea* (Ach.) Egea & Torrente, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ertz et al. (2015b, phylogeny), Lücking et al. (2017a; classification, accepted as a genus in *Opegraphaceae*), sequences are available.

Cresporhaphis M.B. Aguirre 1991, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, two species, type: *C. wienkampii* (J. Lahm ex Hazsl.) M.B. Aguirre, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Harada (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cribropeltis Tehon 1933, *Ascomycota* genera *incertae sedis*, one species, type: *C. citrullina* Tehon, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Criella (Sacc.) Henn. 1900 (= *Phaeorhytisma* Henn. 1899 [1900]; = *Rhytisma* sect. Criella Sacc. 1889 *fide* Species Fungorum 2017), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *C. austrocaledonica* (Crié) Sacc. & P. Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Crinigera I. Schmidt 1985 (= *Crinigera* I. Schmidt 1969 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. maritima* I. Schmidt, asexual morph unknown, marine, temperate, on wood, saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Crinitospora B. Sutton & Alcorn 1985, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. pulchra* B. Sutton & Alcorn, coelomycetous, sexual morph unknown, saprobes, Australia, Thailand, see Kirk et al. (2013; genus accepted), Crous et al. (2014a; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), epitype and ex-epitype culture of type: CBS H-21729, CBS 138014.

Criserosphaeria Speg. 1912, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. phyllostictoides* Speg., asexual morph unknown, saprobes, terrestrial, Argentina, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cristula Chenant. 1920, *Ascomycota* genera *incertae sedis*, one species, type: *C. integra* Chenant., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011) did not accept the genus, Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cristulariella Höhn. 1916 (= *Nervostroma* Narumi & Y. Harada 2006 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *C. depraedans* (Cooke) Höhn., hyphomycetous, sexual morph *Nervostroma*, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, sexual morph), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Cho et al. (2015; DNA, pathogens), cultures and sequences are available.

Crocellina Tehler & Ertz 2014, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *C. cinerea* (Müll. Arg.) Tehler & Ertz, lichenized, see Ertz et al. (2015b, c; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Crocicreas Fr. 1849 (= *Ascoverticillata* Kamat, Subhedar & V.G. Rao 1979 [1978]; = *Belonidium* sect. *Podobelonium* Sacc. 1889; = *Belonioscypha* Rehm 1893 [1896]; = *Belonium* sect. *Scelobelonium* Sacc. 1889; = *Conchatium* Velen. 1934; = *Davincia* Penz. & Sacc. 1902 [1901]; = *Exotrichum* Syd. & P. Syd. 1914; = *Podobelonium* (Sacc.) Penz. & Sacc. 1902 [1901]; = *Scelobelonium* (Sacc.) Höhn. 1905 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, five species, type: *C. gramineum* (Fr.) Fr., asexual morph unknown, saprobes, terrestrial, widespread (esp. north temperate), see Lumbsch and Huhndorf (2010; outline), Whitton et al. (2012b; new species), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for type species.

Crocodia Link 1833 (= *Crocodia* Link 1833; = *Cyanisticta* Gyeln. 1931; = *Diphaeosticta* Clem. 1909; = *Diphanosticta* Clem. 1909; = *Merostictina* Clem. 1909; = *Parmosticta* Nyl. 1875; = *Parmostictina* Nyl. 1875; = *Phaeosticta* Trevis. 1869; = *Phanosticta* Clem. 1909; = *Podostictina* Clem. 1909; = *Saccardoa* Trevis. 1869; = *Stictina* Nyl. 1860 *fide* Species Fungorum 2017), *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, five species; type: *C. aurata* (Ach.) Link, lichenized, see Galloway and Elix (2013; taxonomy), Moncada et al. (2013a; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Crocynia (Ach.) A. Massal. [nom. cons.] 1860 (= *Lecidea* sect. Crocynia Ach. 1810; = *Symplocia* A. Massal. 1854 *fide* Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *Lecidea gossypina* (Sw.) Ach., lichenized, tropical, see Ekman et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Crotone Theiss. & Syd. 1915, *Dothideomycetes* genera *incertae sedis*, one species, type: *C. drimydis* (Lév.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, as *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Crucellisporiopsis Nag Raj 1983, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *C. gelatinosa* Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, Venezuela, New Zealand, Zambia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014d; new species, morphology, DNA), holotype: PDD 41405, sequence data available for *C. marquesiae* P.W. Crous (holotype CBS H-21977, culture ex-type CPC 22539 = CBS 138895 *fide*).

Crucellisporium M.L. Farr 1968, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *C. selaginellae* M.L. Farr, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, Tanzania, see Marincowitz et al. (2010; new species, DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for *C. umtamvunae* Marinc. et al.

Cruentotrema Rivas Plata, Papong, Lumbsch & Lücking 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *C. cruentatum* (Mont.) Rivas Plata, Lumbsch & Lücking, asexual morph unknown, lichenized, terrestrial, tropical, placement in *Graphidaceae* supported by molecular data, see Sipman et al. (2012; key), Rivas Plata et al. (2012a; taxonomy), Lumbsch et al. (2014a, b), Kalb et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Crumenella P. Karst. 1890 (= *Obscurodiscus* Raitv. 2002 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. myricae* (P. Karst.) P. Karst., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Crumenulopsis J.W. Groves 1969 (= *Crumenula* Rehm 1889 [1896]; = *Digitosporium* Gremmen 1953 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. pinicola* (Rebent.) J.W. Groves, asexual morph *Digitosporium*, saprobes, terrestrial, Europe, North America, see Johnston et al. (2014b; nomenclature) Pärtel et al. (2017; DNA), Wijayawardene et al. (2016b; morphology of *Digitosporium*).

Crustodiplodina Punith. 1988, *Ascomycota* genera *incertae sedis*, one species, type: *C. lichenoides* (A.L. Sm.) Punith., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Crustospathula Aptroot 1998, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *C. cartilaginea* Aptroot, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Crutarndina Parnmen, Lücking & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *C. petractoides* (P.M. Jørg. & Brodo) Parnmen, Lücking & Lumbsch, lichenized, see Parnmen et al. (2012; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Cryomyces Selbmann, de Hoog, Mazzaglia, Friedmann & Onofri 2005, *Dothideomycetes*, genera *incertae sedis*, four species, type: *C. antarcticus* Selbmann, de Hoog, Mazzaglia, Friedmann & Onofri, sexual morph unknown, rock-inhabiting, Antarctica and Italy, holotype CBS 116301 = CCFEE 534 (NCBI accession numbers: DQ028269 (ITS), DQ066713 (SSU)), taxonomic species delimitation supported by molecular data.

Additional species: *C. minteri* Selbmann, de Hoog, Mazzaglia, Friedmann & Onofri. For diagnosis see Studies in Mycology 51: 21 (2005); *C. montanus* Isola & Zucconi, and ***C. funiculosus* Selbmann & de Hoog**, described from the Alps (Selbmann et al. 2014). These last two taxa were invalidly published, since the holotypes are missing in the original publication [ICN (Melbourne) Art. 40]; the two species are here validated as follows:

Cryomyces montanus* Isola & Zucconi *sp. nov, MB819850. For diagnosis see Fungal Diversity 65(1): 177 (2014). Holotype: CBS 135221. From rock, Val de la Mare, Passo dello Stelvio, Italy; =CCFEE 5476. culture preserved in liquid nitrogen and in dried condition (NCBI accession numbers: KC315849 (ITS), GU250352 (SSU), GU250394 (LSU), GU250434 (mtSSU)), taxonomic species delimitation supported by molecular data.

Cryomyces funiculosus* Selbmann & de Hoog *sp. nov, MB819849. For diagnosis see Fungal Diversity 65(1): 175 (2014). Holotype: CBS 134687. From rock, Colle delle Pisse, Monte Rosa, Italy; =CCFEE 5554. culture preserved in liquid nitrogen and in dried condition (NCBI accession number: KC315848 (ITS)), taxonomic species delimitation supported by molecular data.

Cryphonectria (Sacc.) Sacc. & D. Sacc. 1905 (= *Nectria* subgen. *Cryphonectria* Sacc. 1883 *fide* Species Fungorum 2017), *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *N. parasitica* D. Sacc., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Gryzenhout et al. (2009; new species, revision), Lumbsch and Huhndorf (2010; outline), Braganca et al. (2011; new species), Maharachchikumbura et al. (2015b, 2016b; taxonomy, phylogeny, outline), cultures and sequences are available.

Cryptandromyces Thaxt. 1912 (= *Peyerimhoffiella* Maire 1916 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 13 species, type: *C. geniculatus* Thaxt., asexual morph unknown, biotrophic, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptascoma Ananthap. 1988, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. bisetula* Ananthap., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Cryptendoxyla Malloch & Cain 1970, *Cephalothecaceae*, *Sordariomycetes*, families *incertae sedis*, one species, type: *C. hypophloia* Malloch & Cain, asexual morph hyphomycetous (chalara-like), from soil, on human as pathogen, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Lysková et al. (2014; DNA, human pathogen), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), living cultures and sequence data available CBS 796.84, CBS 508.70, CBS 138.78.

Crypthonia Frisch & G. Thor 2010, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, c. 15 species, type: *C. polillensis* (Vain.) Frisch & G. Thor, lichenized, widespread tropical, see Frisch and Thor (2010; taxonomy), Menezes et al. (2013b; taxonomy, key), Kirk et al. (2013; genus accepted), Frisch et al. (2014; systematics), Lücking et al. (2017a; classification), sequences are available but lacking for the type.

Cryptoascus Petri 1909, *Sordariomycetes* genera *incertae sedis*, two species, type: *C. oligosporus* Petri, saprobes or pathogens, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cryptoceuthospora Petr. 1921, *Ascomycota* genera *incertae sedis*, two species, type: *C. moravica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptocline Petr. 1924 (= *Gloeotrochila* Petr. 1947 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 15 species, type: *C. effusa* Petr., coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptoclypeus A. Hashim. & Kaz. Tanaka 2017, *Lophiotremataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *C. ryukyuensis* A. Hashim. & Kaz. Tanaka, asexual morph coelomycetous, saprobes, Asia, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Cryptocoryneopsis B. Sutton 1980, *Ascomycota* genera *incertae sedis*, one species, type: *C. umbraculiformis* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, Australia, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: IMI 234264a.

Cryptocoryneum Fuckel 1870, *Cryptocoryneaceae*, *Pleosporales*, *Dothideomycetes*, 20 species, type: *C. fasciculatum* Fuckel, hyphomycetous, dictyosporium-like, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), da Silva et al. (2015; morphology), Hashimoto et al. (2016; morphology, phylogeny), holotype: PRM 155688, type species lacking cultures, seven species have sequence data.

Cryptodictyon A. Massal. 1860 (= *Amphischizonia* Mont. 1856 *fide* Species Fungorum 2017), *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, two species, type: *P. holleana* Mont. & Bosch, lichenized, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Cryptodiscus Corda 1838 (= *Diplocryptis* Clem. 1909; = *Pseudostictis* Lambotte 1887 [1888] *fide* Species Fungorum 2017), *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, nine species; type: *C. pallidus* (Pers.) Corda, saprobic rarely lichenized, see Baloch et al. (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Cryptohymenium Samuels & L.M. Kohn 1987, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *C. pycnidiophorum* Samuels & L.M. Kohn, asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptolechia A. Massal. 1853 (= *Gyalectina* Vězda 1969 *fide* Species Fungorum 2017), *Gyalectaceae*, *Ostropales*, *Lecanoromycetes*, 13 specie, type: *C. carneolutea* (Turner) A. Massal., with ascomata, lichenized (*Trentepohlia*), terrestrial (corticolous or rarely lignicolous), mainly tropical, rarely noted in the Northern Hemisphere see Mangold et al. (2008b; DNA), Lumbsch and Huhndorf (2010; outline), Kalb et al. (2012; new species), Kirk et al. (2013; genus accepted), Lücking et al. (2017a, classification), sequences are available.

Cryptoleptosphaeria Petr. 1923, *Diaporthales* genera *incertae sedis*, one species, type: *C. moravica* Petr., asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cryptomeliola S. Hughes & Piroz. 1997, *Meliolaceae*, *Meliolales*, *Sordariomycetes*, three species, type: *C. orbicularis* (Berk. & M.A. Curtis) S. Hughes & Piroz., asexual morph produced from the hyphae, saprobes, terrestrial, Cuba, Kenya, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cryptometrion Gryzenh. & M.J. Wingf. 2010, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. aestuescens* Gryzenh. & M.J. Wingf., asexual morphs coelomycetous, pathogens, terrestrial, North Sumatra, Indonesia, see Gryzenhout et al. (2010; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; taxonomy, phylogeny, outline), holotype and culture ex-type: CMW 22535.

Cryptomycella Höhn. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *C. pteridis* (Kalchbr.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptomyces Grev. 1825, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *C. wauchii* Grev., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Cryptomycetaceae*), Lantz et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; treated *Cryptomycetaceae* as a synonym of *Rhytismataceae*), cultures and sequences are available.

Cryptomycina Höhn. 1917, *Sordariomycetes*, genera *incertae sedis*, one species, type: *C. pteridis* (Rebent.) Höhn., asexual morph ? *Cryptomycella*, saprobes, terrestrial, North temperate, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cryptonectriella (Höhn.) Weese 1919, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. biparasitica* (Höhn.) Weese, see Kirk et al. (2008; treated as a synonym of *Nectriella* Nitschke ex Fuckel), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Cryptonectriopsis (Höhn.) Weese 1919, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, type: *C. biparasitica* (Höhn.) Höhn., see Kirk et al. (2008; treated as a synonym of *Phomatospora* Sacc.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Cryptoniesslia Scheuer 1993, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. setulosa* Scheuer, asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cryptopezia Höhn. 1919, *Helotiales* genera *incertae sedis*, one species, type: *C. mirabilis* Höhn., asexual morph unknown, saprobes, terrestrial, Samoa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptophaea Van den Broeck & Ertz 2016, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *C. phaeospora* Van den Broeck & Ertz, asexual morph unknown, lichenized, terrestrial, Democratic Republic of the Congo, see Van den Broeck and Ertz (2016; morphology, phylogeny), Lücking et al. (2017a; classification), holotype and ex-type: Van den Broeck 5964 (BR).

Cryptophiale Piroz. 1968, *Ascomycota* genera *incertae sedis*, 18 species, type: *C. kakombensis* Piroz., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011 morphology, accepted as a genus in *Chaetosphaeriaceae*, *Chaetosphaeriales*), Whitton et al. (2012a; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptophialoidea Kuthub. & Nawawi 1987, *Ascomycota* genera *incertae sedis*, three species, type: *C. secunda* (Kuthub. & B. Sutton) Kuthub. & Nawawi, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, Malaysia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptosphaerella Sacc. 1882 (= *Cryptosphaerella* Sacc. 1882 *fide* Species Fungorum 2017), *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, c. 15 species, type: *C. nitschkei* (Auersw.) Sacc., asexual morph unknown, saprobes, terrestrial, Cuba, Malaysia, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; DNA, phylogeny), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures and sequences are available.

Cryptosphaeria Ces. & De Not. 1863 (= *Cladosphaeria* Nitschke ex Jacz. 1894; = *Cryptosphaerina* Lambotte & Fautrey ex Sacc. & P. Syd. 1902; = *Stigmatopsis* Traverso 1906 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, c. 13 species, type: *C. millepunctata* Grev., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Trouillas et al. (2015; new species, USA, DNA, Phylogeny), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures and sequences are available.

Cryptosporella Sacc. 1877 (= *Disculina* Höhn. 1916; = *Cryptospora* Tul. & C. Tul. 1863; = *Cryptospora* subgen. *Winterella* Sacc. 1883; = *Cryptosporina* Höhn. 1905; = *Hystricula* Cooke 1884; = *Ophiovalsa* Petr. 1966; = *Winterella* (Sacc.) Kuntze 1891 *fide* Mejia et al. 2008; Rossman et al. 2015a; Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, c. 26 species, type: *C. hypodermia* (Fr.) Sacc., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Mejía et al. (2008, 2011; new species, DNA, Phylogeny), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures and sequences are available.

Cryptosporium Kunze 1817 (= *Cryptomela* Sacc. 1884 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 25 species, type: *C. atrum* Kunze, coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptostroma P.H. Greg. & S. Waller 1952, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *C. corticale* (Ellis & Everh.) P.H. Greg. & S. Waller, hyphomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cryptothecia Stirt. 1876 nom. cons. (= *Herpothallon* Tobler 1937; = *Herpothallonomyces* Cif. & Tomas. 1954; = *Hypochnus* Fr. ex Ehrenb. 1820; = *Myriostigma* Kremp. 1874; = *Myxotheca* Ferd. & Winge 1910 *fide* Species

Fungorum 2017), *Arthoniaceae*, *Arthoniales*, *Arthoniomyecetes*, c. 65 species, type: *C. subnidulans* Stirt., asexual morph unknown, lichenized, epiphytic and foliicolous, widespread, pantropical to subtropical, see Ertz et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Bungartz et al. (2013a; taxonomy), Kirk et al. (2013; genus accepted), Frisch et al. (2014; phylogeny: genus *Myriostigma* reinstated for the *Cryptothecia candida* group), Jagadeesh Ram and Sinha (2016; world key), Lücking et al. (2017a; classification), sequences are available.

Cryptothele Th. Fr. 1866 (= *Cryptotheliomyces* Cif. & Tomas. 1953; = *Malmgrenia* Vain. 1939; = *Phylliscum* subgen. *Phylliscum* Nyl. 1855; = *Pyrenopsidium* (Nyl.) Forssell 1885 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, six species, type: *C. permiscens* (Nyl.) Th. Fr., asexual morph unknown, lichenized, saxicolous, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Cryptovalsa Ces. & De Not. ex Fuckel 1870 (= *Allescherina* Berl. 1902 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, 24 species, type: *C. protracta* (Pers.) De Not., asexual morph coelomycetous, saprobes, pathogens, worldwide, see Lumbsch and Huhndorf (2010; outline; as *Sordariomycetes*, genera *incertae sedis*), Trouillas et al. (2010; pathogens), Senanayake et al. (2015; outline), Li et al. (2016a; coelomycetous asexual morph), Maharachchikumbura et al. (2016b; outline), Abdel-Wahab et al. (2017; new species), cultures and sequences are available.

Cryptumbellata Udagawa & Uchiy. 1999, *Ascomycota* genera *incertae sedis*, one species, type: *C. terricola* Udagawa & Uchiy., hyphomycetous, sexual morph unknown, saprobes, terrestrial, China, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ctenomyces Eidam 1880, *Arthrodermataceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *C. serratus* Eidam, asexual morph hyphomycetous, saprobes, terrestrial, common on keratinous substrates, especially feathers, also occurring in soil and on dung, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Guarro et al. (2012; morphology), van den Brink et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), de Hoog et al. (2016a; phylogeny, outline), ex-neotype: CBS 187.61.

Ctenosporium R. Kirschner 2006, *Ascomycota* genera *incertae sedis*, one species, type: *C. pectinatum* R. Kirschner, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Panama, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Cubasina R.F. Castañeda 1986, *Ascomycota* genera *incertae sedis*, two species, type: *C. albofusca* R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: INIFAT C85/154, cultures and sequences are unavailable.

Cucujomyces Speg. 1917 (= *Stephanomyces* Speg. 1917 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 20 species, type: need typification, asexual morph unknown, biotrophic, worldwide, see Rossi and Weir (2008; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cucullosporella K.D. Hyde & E.B.G. Jones 1986 (= *Cucullospora* K.D. Hyde & E.B.G. Jones 1986 *fide* Species Fungorum 2017), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *C. mangrovei* (K.D. Hyde & E.B.G. Jones) K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; DNA, phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), cultures and sequences are available.

Cucurbidothis Petr. 1921, *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. pityophila* (J.C. Schmidt & Kunze) Petr., asexual morph unknown, saprobes, terrestrial, worldwide, see Ariyawansa et al. (2014f; accepted as a genus in *Cucurbitariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available but needs verification.

Cucurbitaria Gray 1821 (= *Crotonocarpia* Fuckel 1870 [1869–70]; = *Cucurbitariopsis* Vassilkov 1960; = *Cyathisphaera* Dumort. 1822; = *Gemmamyces* Casagr. 1969; = *Gibberidea* (Fr.) Kuntze 1898; = *Leucothyridium* Speg. 1909; = *Megaloseptoria* Naumov 1925; = *Megalospora* Naumov 1927; = *Phialospora* Raf. 1832; = *Sphaeria* b Gibberidea Fr. 1849; = *Sphaeria* ser. *Erumpentes* Fr. 1849 *fide* Species Fungorum 2017), *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, c. 40 species, type: *C. berberidis* (Pers.) Gray, asexual morph coelomycetous, with pyrenochaeta-like asexual morph, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Doilom et al. (2013; taxonomy, typification), Hyde et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), ex-epitype: CB1 = CBS 130007 = MFLUCC11-0384; Epitype of type: MFLU 12-0111.

Cucurbitopsis Bat. & Cif. 1957, *Sordariomycetes* genera *incertae sedis*, one species, type: *C. ramulorum*

Bat., Nascim. & Cif., asexual morph unknown, saprobes, pathogens, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Cudonia Fr. 1849 (= *Leotiella* Plöttn. 1900 *fide* Species Fungorum 2017), *Cudoniaceae*, *Rhytismatales*, *Leotiomycetes*, nine species, type: *C. circinans* (Pers.) Fr., asexual morph unknown, saprobes, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for type: AFTOL-ID 353.

Cudoniella Sacc. 1889 (= *Helotium* Pers. 1801; = *Isosoma* Svrček 1989; = *Peziza* b Helotium (Pers.) Fr. 1822 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 31 species, type: *C. queletii* (Fr.) Sacc., asexual morph hyphomycetous (*Tricladium*?), saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hustad and Miller (2011; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available, type lacking sequence data.

Cudoniopsis Speg. 1925, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *C. pusilla* Speg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and cultures and sequences are unavailable.

Culbersonia Essl. 2000, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, two species; type: *C. americana* Essl., lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Prieto et al. (2013; phylogeny) Prieto and Wedin (2016; phylogeny), Lücking et al. (2017a; classification), sequences are unavailable.

Culicidospora R.H. Petersen 1960, *Ascomycota* genera *incertae sedis*, two species, type: *C. aquatica* R.H. Petersen, hyphomycetous, sexual morph unknown, saprobes, aquatic, Newfoundland, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and cultures and sequences are unavailable.

Culicinomyces Couch, Romney & B. Rao 1974, *Ascomycota* genera *incertae sedis*, two species, type: *C. clavisporus* Couch, Romney & B. Rao, hyphomycetous, sexual morph unknown, on mosquitos, aquatic, USA, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence data available for *Culicinomyces bisporalis* Sigler, Frances & C. Panter, type lacking sequence data.

Cumulospora I. Schmidt 1985, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *C. marina* I. Schmidt, hyphomycetous, sexual morph unknown, saprobes, marine, worldwide, see Abdel-Wahab et al. (2010; phylogeny), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cupulina Dougoud, Van Vooren & M. Vega 2015, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. montana* Dougoud, Van Vooren & M. Vega, asexual morph unknown, saprobes, terrestrial, Europe, see Dougoud et al. (2015; morphology, taxonomy), holotype and isotype: G00262366 (herbarium Geneva), R. Dougoud RD32.43.544.13.

Cupulomyces R.K. Benj. 1992, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *C. lasiochili* (Thaxt.) R.K. Benj., asexual morph unknown, biotrophic, Grenada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Curreya Sacc. 1883 (= *Cucurbidothis* Petr. 1921 *fide* Species Fungorum 2017), *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *C. conorum* (Fuckel) Sacc., asexual morph coelomycetous, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Doilom et al. (2013; accepted as a genus in *Cucurbitariaceae*), Hyde et al. (2013; accepted as a genus in *Cucurbitariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), ex-holotype: S F8461.

Curucispora Matsush. 1981, *Ascomycota* genera *incertae sedis*, three species, type: *C. ponapensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Curvatispora V.V. Sarma & K.D. Hyde 2001, *Sordariomycetes* genera *incertae sedis*, one species, type: *C. singaporensis* V.V. Sarma & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Singapore, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Curvicladiella Decock & Crous 2006 (= *Curvicladium* Decock & Crous 1998 nom. inval. Art. 53), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. cignea* (Decock & Crous) Decock & Crous, asexual morph hyphomycetous, saprobes, terrestrial, French Guiana, see Wijayawardene et al. (2012, 2017; outline), Lombard et al. (2015b; taxonomy, DNA, phylogeny), Maharachchikumbura et al. (2016b; outline), holotype and ex-type: MUCL 40269, CPC 1595 = CBS 109167.

Curvularia Boedijn 1933 (= *Curvisporium* Corbetta 1963; = *Malustela* Bat. & J.A. Lima 1960; = *Pseudocochliobolus* Tsuda, Ueyama & Nishih. 1978 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b; Species Fungorum 2017), *Pleosporaceae*, *Pleosporales*,

Dothideomycetes, more than 100 species, type: *C. lunata* (Wakker) Boedijn, sexual morph formerly known in Pseudocochliobolus hyphomycetous, pathogenic or saprobes on plant or humans, terrestrial, worldwide, see Seifert et al. (2011 morphology), Manamgoda et al. (2012, 2014, 2015; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Ariyawansa et al. (2015c; taxonomy, phylogeny), Rossman et al. (2015b; nomenclature), sequence data available for more than 50 species, ex-neotype: CBS 730.96.

Curvulariopsis M.B. Ellis 1961, *Ascomycota* genera *incertae sedis*, one species, type: *C. cymbisperma* (Pat.) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, Ecuador, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cuspidatispora Shearer & Bartolata 2006, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. xiphiago* Shearer & Bartolata, asexual morph unknown, saprobes, aquatic, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: ILL, Shearer A184-1, cultures and sequences are available.

Custingophora Stolk, Hennebert & Klopotek 1968, *Gondwanamycetaceae*, *Microascales*, *Sordariomycetes*, eight species, type: *C. olivacea* Stolk, Hennebert & Klopotek, sexual morph unknown, saprobes, terrestrial, worldwide, see Kolarík and Hulcr (2009; new species), Nagaraju et al. (2011a; new species), Crous et al. (2013b; new species, DNA), Dubey and Moonambeth (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for type: CBS 335.68.

Cyanoannulus Raja, J. Campb. & Shearer 2003, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *C. petersenii* Raja, J. Campb. & Shearer, see Boonyuen et al. (2012; phylogeny), Cai et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: R044-1, ILL 86218, cultures and sequences are available.

Cyanochyta Höhn. 1915, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. cyanogena* (Speg.) Höhn, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cyanodermella O.E. Erikss. 1981, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *C. viridula* (Berk. & M.A. Curtis) O.E. Erikss., coelomycetous, sexual morph unknown, saprobes, cosmopolitan, see Jaklitsch et al. (2016a; classification), van Nieuwenhuijzen et al. (2016; DNA), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Cyanodiscus E. Müll. & M.L. Farr 1971, *Saccardiaceae*, *Pezizomycotina* families *incertae sedis*, two species, type: *C. occidentalis* E. Müll. & M.L. Farr, asexual morph unknown, saprobes, terrestrial, sub tropical regions, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cyanonectria Samuels & P. Chaverri 2009, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *C. cyanostoma* (Sacc. & Flageolet) Samuels & P. Chaverri, asexual morph hyphomycetous, saprobes, terrestrial, French Guiana, see Samuels et al. (2009; morphology), Schroers et al. (2011; DNA, phylogeny), Lombard et al. (2015b; taxonomy, DNA, phylogeny), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available.

Cyanopatella Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *C. iranica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Iran, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cyanophomella Höhn. 1918, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. acervalis* (Sacc.) Höhn, asexual morph coelomycetous, saprobes, Rhenogovia, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Cyanoporina Groenh. 1951, *Pezizomycotina* genera *incertae sedis*, one species, type: *C. granulosa* Groenh., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as in *Pyrenotrichaceae*), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences unavailable, needs a revision.

Cyanopulvis J. Fröhl. & K.D. Hyde 2000, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *C. australiensis* J. Fröhl. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as *Xylariales* genera *incertae sedis*), cultures and sequences unavailable, needs a revision.

Cyanopyrenia H. Harada 1995, *Ascomycota* genera *incertae sedis*, one species, type: *C. japonica* H. Harada, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype: HIRO, Harada 3444, cultures and sequences unavailable, needs a revision.

Cyathicula De Not. 1864 (= *Conchatium* Velen. 1934 *fide* Jaklitsch et al. 2016a), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, c. 30 species, type: *C. coronata* (Bull.) De Not., asexual morph *Glarea* (*fide* Jaklitsch et al. 2016a), saprobes on leaves, culms, herbaceous stems and wood, widespread, Kirk et al. (2013; did not list), accepted in Jaklitsch et al. (2016a), type in CUP herbarium, cultures and sequences are unavailable for the type.

Cyberlindnera Minter 2009 (= *Cyberlindnera* Minter 2009: = *Lindnera* Kurtzman, Robnett & Bas.-Powers 2008; = *Zygowilliopsis* Kudryavtsev 1960 *fide* Species Fungorum 2017), *Phaffomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 30 species, type: *C. americana* (Wickerham) Minter, asexual reproduction is by multilateral budding and formation of pseudohyphae and true hyphae, saprophytic, one species is an opportunistic human and animal pathogen, see Minter (2009; taxonomy), cultures and sequences are available.

Cyclaneusma DiCosmo, Peredo & Minter 1983, *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *C. minus* (Butin) DiCosmo, Peredo & Minter, asexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cyclodomus Höhn. 1909, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, three species, type: *C. umbellulariae* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cyclomarsonina Petr. 1965, *Ascomycota* genera *incertae sedis*, one species, type: *C. cedrelae* (T.S. Ramakr. & K. Ramakr.) Petr., sexual morph unknown, saprobes, terrestrial, India, see coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cyclopeltella Petr. 1953, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *C. orbicularis* Petr., saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2014c; outline, reduced under *Cyclopeltis*), Hyde et al. (2013; accepted as *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), cultures and sequences are unavailable.

Cycloschizon Henn. 1902 (= *Cycloschizella* Höhn. 1919; = *Dielsiella* Henn. 1903; = *Maurodothis* Sacc., Syd. & P. Syd. ex Syd. & P. Syd. 1904 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, c. 13 species, type: *C. brachylaenae* (Rehm) Henn., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), placement in *Parmulariaceae* supported by morphology, cultures and sequences are unavailable.

Cyclostomella Pat. 1896 (= *Cocconiopsis* G. Arnaud 1918; = *Pycnostemma* Syd. 1927 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *C. disciformis* Pat., epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Cyclotheca Theiss. 1914 nom. cons. prop. (= *Calopeltis* Syd. 1925; = *Hariotula* G. Arnaud 1917; = *Seynesiospora* Bat. 1960; = *Synostomella* Syd. 1927; = *Synpeltis* Syd. & P. Syd. 1917; = *Thyrosoma* Syd. & P. Syd. 1921 *fide* Species Fungorum 2017), *Dothideomycetes*, genera *incertae sedis*, nine species, type: *C. miconiae* (P. Syd.) Theiss., asexual morph unknown, saprobes, worldwide, Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; nomenclature), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Cyclothyriella Jaklitsch & Voglmayr 2016a, *Thyridariaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *C. rubronotata* (Berk. & Broome) Jaklitsch & Voglmayr, asexual morph coelomycetous, saprobes, Europe, possibly also North America, see Jaklitsch and Voglmayr (2016a; taxonomy, phylogeny), holotype of the type: K(M) 202878.

Cyclothyrium Petr. 1923 (= *Coniothyriopsiella* Bender 1932; = *Coniothyriopsis* Petr. 1923; = *Kirschsteiniella* Petr. 1923 *fide* Species Fungorum 2017), *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *C. ulmigenum* (Berk.) Petr., coelomycetous, ?sexual morph thyridaria-like, saprobes, terrestrial, worldwide, see Damm et al. (2008b; phylogeny), de Gruyter et al. (2012; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, morphology, phylogeny), cultures and sequences are available.

Cylindrium Bonord. 1851, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, c. 50 species, type: *C. elongatum* Bonord., hyphomycetous, sexual morph unknown, on soil, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011 morphology), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; phylogeny, new species), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Cylindrocarpostylus R. Kirschner & Oberw. 1999, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *C. gregarius* (Bres.) R. Kirschner & Oberw., hyphomycetous, sexual morph unknown, in bark beetle

galleries, Europe, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cylindrocladiella Boesew. 1982 (= *Nectricladiella* Crous & C. L. Schoch 2000 *fide* Rossman et al. 2013b), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, eight species, type: *C. parva* (P.J. Anderson) Boesew., soil-borne fungi, pathogenic and/or saprobes of various plant hosts and substrates, worldwide, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2012, 2015b), Maharachchikumbura et al. (2015b, 2016b; outline), ex-epitype: CBS 114524 = ATCC 28272 = CPC 2370; holotype: ATCC 28272.

Cylindrodendrum Bonord. 1851, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *C. album* Bonord., sexual morph unknown, saprobes, pathogenic or isolated from soil, marine, fresh-water and terrestrial, worldwide, Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2012, 2015b), Maharachchikumbura et al. (2015b, 2016b; outline), ex-epitype: CBS 301.83 = ATCC 46842 = IMI 255534; isotype: CBS H-3483A = CBS H-3483B = CBS H-3483C.

Cylindrogloeum Petr. 1941, *Ascomycota* genera *incertae sedis*, one species, type: *C. arcticum* Petr., coelomycetous, sexual morph unknown, saprobes, Lapland, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cylindromyces Manohar., D.K. Agarwal & N.K. Rao 2004, *Ascomycota* genera *incertae sedis*, one species, type: *C. striatus* Manohar., D.K. Agarwal & N.K. Rao, hyphomycetous, sexual morph unknown, saprobes, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cylindrophoma (Berl. & Voglino) Höhn. 1978 (= *Macrophoma* subgen. *Cylindrophoma* Berl. & Voglino 1886 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *C. smilacina* (Desm.) Höhn., coelomycetous, sexual morph unknown, saprobes, Italy, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cylindroseptoria Quaedvl., Verkley & Crous 2013, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, two species, type: *C. ceratoniae* Quaedvl., Verkley & Crous, saprobes, terrestrial, Spain, see Quaedvlieg et al. (2013; morphology, DAN, phylogeny), Wijayawardene et al. (2014c; outline, phylogeny), holotype and ex-type: CBS H-21301, CBS 471.69.

Cylindrosporella Höhn. 1916 (= *Actinonemella* Höhn. 1916; = *Cylindrosporella* Höhn. 1916; = *Depazea* Fr. 1818; = *Gloeosporina* Höhn. 1916; = *Ribaldia* Cif. 1954; = *Titaeosporina* Luijk 1920 [1919] *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *C. carpini* (Lib.) Höhn., saprobes, terrestrial, Spain, see Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Cylindrosympodioides Crous & M.J. Wingf. 2016, *Venturiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *C. brabejum* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2016b; new species, phylogeny), Wijayawardene et al. (2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22594, CPC 25934.

Cylindrosympodium (de Hoog) W.B. Kendr. & R.F. Castañeda 1990, *Ascomycota* genera *incertae sedis*, twelve species, type: *C. variabile* (de Hoog) W.B. Kendr. & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Netherlands, see Seifert et al. (2011; morphology), Castañeda-Ruiz et al. (2012a; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: CBS-H 1634, sequence data, available, compare with *Mirandina*, *Parasympodiella*, *Solosympodiella* and *Subulispora*.

Cylindrothyrium Maire 1907, *Ascomycota* genera *incertae sedis*, one species, type: *C. subericola* Maire, coelomycetous, sexual morph unknown, saprobes, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cylindrotrichum Bonord. 1851 (= *Reticulascus* Réblová & W. Gams 2011 *fide* Maharachchikumbura et al. 2016b; Réblová et al. 2016c), *Reticulascaceae*, *Glomerellales*, *Sordariomycetes*, 14 species, type: *C. oligospermum* (Corda) Bonord., hyphomycetous, sexual morph formerly known in *Reticulascus*, Europe, see Réblová et al. (2011, 2016c; sexual morph, DNA, morphology, phylogeny, nomenclature), Seifert et al. (2011 morphology), Maharachchikumbura et al. (2015b, 2016b; outline, nomenclature), cultures available for type: CBS 561.77, CBS 570.76, CBS 557.74.

Cylindroxyphium Bat. & Cif. 1963, *Ascomycota* genera *incertae sedis*, one species, type: *C. virginianum* Bat. & Cif., coelomycetous, sexual morph unknown, saprobes, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cymostachys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *C. fabispora* L. Lombard & Crous,

hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Lin et al. (2016b; new species), Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type: CBS H-22433, CBS 136180.

Cyniclomyces van der Walt & D.B. Scott 1971 (= *Saccharomycopsis* Guillierm. 1912 *fide* Species Fungorum 2017), *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *C. guttulatus* (C.P. Robin) van der Walt & D.B. Scott, asexual reproduction is by multilateral budding, saprophyte, stomach and intestines of rabbits and certain other herbivores, worldwide, see Lumbsch and Huhndorf (2010; outline), Kurtzman and Robnett (2013b; DNA, phylogeny), Kirk et al. (2013; genus accepted), sequences are available.

Cyphellophora G.A. de Vries 1962, *Cyphellophoraceae*, *Chaetothyriales*, *Eurotiomycetes*, 25 species, type: *C. laciniata* G.A. de Vries, hyphomycetous, sexual morph unknown, saprobes, terrestrial, southern USA, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Réblová et al. (2013; new species), Feng et al. (2014; new species), Gao et al. (2015a, b; new species), Crous et al. (2016b; new species), Madrid et al. (2016; new species), cultures and sequences are available.

Cyphellophoriella Crous & A.J. Sm. 2015, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *C. pruni* Crous & A.J. Sm., hyphomycetous, saprobes, USA, see Crous et al. (2015c; taxonomy, phylogeny), Wijayawardene et al. (2017; outline, phylogeny), holotype and ex-type: CBS H-22255, CPC 25120.

Cyrtidium Vain. 1921, *Ascomycota* genera *incertae sedis*, one species, type: *C. naevium* Vain., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline; accepted as *Dothideomycetes* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c) excluded from *Dothideomycetes*, cultures and sequences are unavailable.

Cyrtidula Minks 1876, *Ascomycota* genera *incertae sedis*, one species, type: need typification, asexual morph unknown, saprobes, Italy, see Lumbsch and Huhndorf (2010; outline; accepted as *Dothideomycetes* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c) excluded from *Dothideomycetes*, cultures and sequences are unavailable.

Cyrtopsis Vain. 1921, *Ascomycota* genera *incertae sedis*, one species, type: *C. fumosa* Vain., asexual morph unknown, saprobes, Italy, see Lumbsch and Huhndorf (2010; outline; accepted as *Dothideomycetes* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c) excluded from *Dothideomycetes*, cultures and sequences are unavailable.

Cystocoleus Thwaites 1849 (= *Chroolepus* C. Agardh 1824 1909 *fide* Species Fungorum 2017), *Cystocoleaceae*, *Capnodiales*, *Dothideomycetes*, one species; type: *C. ebeneus* (Dillwyn) Thwaites, lichenized, lichenicolous, terrestrial, see Muggia et al. (2008; taxonomy), Nelsen et al. (2009; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Hawksworth et al. (2011b; typification), Kirk et al. (2013; genus accepted), Tian et al. (2014; morphology; nomenclature), Lücking et al. (2017a; classification), sequences are available.

Cystodendron Bubák 1914, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *C. dryophilum* (Pass.) Bubák, hyphomycetous, sexual morph unknown, saprobes, Europe, see Grünig et al. (2009; DNA), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Selçuk et al. (2014; Turkey), cultures and sequences are available for unidentified species.

Cystodium Fée 1837, *Ascomycota* genera *incertae sedis*, one species, type: need typification, asexual morph unknown, saprobes, Italy, see Lumbsch and Huhndorf (2010; outline; accepted as *Dothideomycetes* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c) excluded from *Dothideomycetes*, cultures and sequences are unavailable.

Cystotheca Berk. & M.A. Curtis 1860 (≡ *Sphaerotheca* sect. *Cystotheca*; = *Lanomyces* Gäum. 1922 = *Sphaerotheca* auct. p.p. *fide* Braun and Cook 2012), *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, nine species, type: *C. wrightii* Berk. & M.A. Curtis, sexual and hyphomycetous asexual morphs, biotrophic, obligate plant pathogens, terrestrial, Asia and North America, asexual morph: *Setoidium* (R.T.A. Cook, A.J. Inman & C. Billings) R.T.A. Cook & U. Braun, see Braun and Cook (2012; taxonomy), lectotype of type: K(M) 168934, sequences are available.

Notes: *Setoidium* was originally described as *Oidium* subgen. *Setoidium* R.T.A. Cook, A.J. Inman & C. Billings, typified by *Oidium japonicum* Syd. (Cook et al. 1997), this subgenus was subsequently raised to genus status by Braun and Cook (2012), but no binomial in *Setoidium* was given to the type species. *Oidium japonicum* is the asexual morph of *C. wrightii* (Braun and Cook 2012) and under unitary nomenclature, the genus *Setoidium* should be considered as synonym of *Cystotheca*. In addition, two names in *Setoidium* which lack a *Cystotheca* sexual state are known. The generic affinity of *S. castanopsidis* Meeboon & S. Takam. has been proven by means of molecular sequence data, justifying the reallocation of this species to *Cystotheca*. However, the combination *S. murrayae* (Hosag., U. Braun & Rabindran) U. Braun & R.T.A. Cook was only based on morphological similarity and has not yet been confirmed by sequence data, precluding a reallocation to *Cystotheca* in the current state. The

respective synonymy and a new combination are introduced as follows:

Cystotheca wrightii **Berk. & M.A. Curtis, Proc. Amer. Acad. Arts 4:130. 1860**

= *Oidium japonicum* Syd., Mém. Herb. Boissier 4:6. 1900.

Cystotheca castanopsidis **(Meeboon & S. Takam.) Meeboon & S. Takam., comb. nov.**

IndexFungorum: IF553185

Basionym: *Setoidium castanopsidis* Meeboon & S. Takam., Mycoscience 54:275. 2012.

Cystotricha Berk. & Broome 1850, *Ascomycota* genera *incertae sedis*, one species, type: *C. striola* Berk. & Broome, coelomycetous, sexual morph unknown, saprobes, terrestrial, British Isles, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cystotrichiopsis Abbas, B. Sutton & Ghaffar 2001, *Ascomycota* genera *incertae sedis*, coelomycetous, sexual morph unknown, one species, type: *C. salvadorae* Abbas, Sutton & Ghaffar, saprobes, terrestrial, Pakistan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: UCMH 759 (IMI 322594), cultures and sequences are unavailable, genus need revision.

Cytodiscula Petr. 1931, *Ascomycota* genera *incertae sedis*, one species, type: *C. carnea* Petr., coelomycetous, sexual morph unknown, saprobes, Madeira, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cytogloeum Petr. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *C. tiliae* Petr., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cytomelanconis Naumov 1951, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *C. systema-solare* Naumov, asexual morph coelomycetous, saprobes, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Cytonaema Höhn. 1914, *Ascomycota* genera *incertae sedis*, two species, type: *C. spinella* (Kalchbr.) Höhn., coelomycetous, sexual morph unknown, saprobes, Austria, South Africa, see Marincowitz et al. (2008; morphology, new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cytoplacosphaeria Petr. 1920, *Ascomycota* genera *incertae sedis*, two species, type: *C. rimosa* Petr., coelomycetous, sexual morph unknown, saprobes, Europe, Hong Kong, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cytoplea Bizz. & Sacc. 1885 (= *Neopycnodothis* Tak. Kobay. 1965 *fide* Species Fungorum 2017), *Roussoellaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *C. arundinacea* (Sacc.) Petr. & Syd., coelomycetous, sexual morph roussoella-like, saprobes, Europe, Hong Kong, see, Wijayawardene et al. (2012, 2014c, 2016b; outline, morphology, nomenclature), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cytosphaera Died. 1916, *Ascomycota* genera *incertae sedis*, two species, type: *C. mangiferae* Died., coelomycetous, sexual morph unknown, saprobes, Asia, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Cytospora Ehrenb. 1818 (= *Valsa* Fr. 1825; = *Valsella* Fuckel 1870; = *Leucostoma* (Nitschke) Höhn. 1917; = *Valseutypella* Höhn. 1919; = *Leucocytospora* (Höhn.) Höhn. 1927 *fide* Rossman et al. 2015a; see Species Fungorum for additional synonyms), *Valsaceae*, *Diaporthales*, *Sordariomycetes*, c. 120 species, type: *C. chrysosperma* (Pers.) Fr., coelomycetous, sexual morph formerly known in *Valsa*, saprobes, pathogens, worldwide, see Fotouhifar et al. (2010; phylogeny), Fan et al. (2014, 2015a; morphology, pathogens, China), Liu et al. (2015a; new species), Rossman et al. (2015a; nomenclature), Yang et al. (2015b; pathogens, China), Crous et al. (2016b; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Norphanphoun et al. (2017, monograph, phylogeny, new species), Tibpromma et al. (2017b; new species), Thambugala et al. (2017a, new species, phylogeny), cultures and sequences are available.

Cytosporella Sacc. 1884, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, 32 species, type: *C. sycina* (Sacc.) Sacc., coelomycetous, sexual morph unknown, saprobes, temperate regions, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Fan et al. (2016a; new species), cultures and sequences are unavailable.

Cytostagonospora Bubák 1916 (= *Cytostaganis* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *C. photiniicola* Bubák, coelomycetous, sexual morph unknown, saprobes, temperate regions, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Quaedvlieg

et al. (2013; DNA, phylogeny), cultures and sequences are available for *C. martiniana* (CBS 135102), type lacking sequence data.

Cyttaria Berk. 1842, *Cyttariaceae*, *Cyttariales*, *Leotiomycetes*, type: *C. darwinii* Berk., asexual morph unknown, saprobes, south temperate regions, see Lumbsch and Huhndorf (2010; outline), Peterson and Pfister (2010; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Cyttariella Palm, *Ascomycota* genera *incertae sedis*, one species, type: *C. skottsbergii* Palm., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, cultures and sequences are unavailable.

Dacampia A. Massal. 1853 (= *Xenosphaeria* Trevis. 1860 *fide* Species Fungorum 2017), *Dacampiaceae*, *Dothideomycetes* families *incertae sedis*, 14 species, type: *D. hookeri* (Borrer) A. Massal., lichenicolous, or saprobes, terrestrial, Europe, see Halici et al. (2008, 2009a, b; new species), Brackel (2010a; new species), Hyde et al. (2013; phylogeny), Wijayawardene et al. (2014a; outline), Ertz et al. (2015a; DNA, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, available cultures for type: Hafellner 81840 (GZU), Hafellner 75980 (GZU), Hafellner 74269 (GZU), Hafellner 73897 (GZU).

Dacryoma Samuels 1988, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type *D. album* Samuels, sexual morph unknown, saprobes on palms, terrestrial, Indonesia Peru, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: BO, isotype NY.

Dactylaria Sacc. 1880 (= *Didymotrichum* Höhn. 1914; = *Diplorhinotrichum* Höhn. 1902 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, c. 100 species, type: *D. purpurella*, hyphomycetous, saprobes, pathogens, parasites, terrestrial and aquatic, widespread, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Magalhães et al. (2014), Mel'nik et al. (2013a; new species), Crous et al. (2016a; new species, phylogeny), few sequence available for this genus but not available for the type, sexual morph hypomyces-like reported for *D. mycophila*.

Dactylella Grove 1884 (= *Gangliophragma* Subram. (1978,"1977"); = *Drechsleromyces* Subram. (1978,"1977") *fide* Baral et al. 2015), *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, heterogenous, type: *D. minuta* Grove, c. 70 species, hyphomycetous, ?sexual morph *Orbilia*, saprobes, terrestrial, worldwide, see Zhang et al. (2010d; new species), Qin et al. (2011; new species), Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Baral et al. (2015; genus accepted), cultures and sequences are available.

Dactylellina M. Morelet 1968 (see Baral et al. 2015 for synonyms), *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, c. 23 species, type: *D. leptospora* (Drechsler) M. Morelet, hyphomycetous, sexual morph unknown, nematode trapping, in soil, terrestrial, aquatic, Asia, Europe, see Seifert et al. (2011 morphology), Hanying et al. (2012; development), Wijayawardene et al. (2012, 2017; outline), Yu et al. (2012; biology), Kirk et al. (2013; genus accepted), Baral et al. (2015; genus accepted), cultures and sequences are available.

Dactylifera Alcorn 1927, *Ascomycota genera incertae sedis*, one species, type: *D. australiensis* Alcorn, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dactylina Nyl. 1860 (= *Dufoureomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *D. arctica* (Richardson) Nyl., asexual reproduction by small lateral lobules and sexual by apothecia (rarely developed), lichenized, terricolous, circumpolar, arctic-alpine Northern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences available for the type: AFTOL 225.

Dactylonectria L. Lombard & Crous 2014, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, ten species, type: *D. macrodidyma* (Halleen, Schroers & Crous) L. Lombard, van der Merwe & J.Z. Groenew. & Crous, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lombard et al. (2014, 2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Dactylospora Körb. 1855 (= *Kymadiscus* Kohlm. & E. Kohlm. 1971; = *Mycolecidia* P. Karst. 1888; = *Mycolecis* Clem. 1909; = *Paruephaedria* Zukal 1891; = *Pseudokarschia* Velen. 1934 *fide* Species Fungorum 2017), *Dactylosporaceae*, *Eurotiomycetes* families *incertae sedis*, c. 50 species, type: *D. floerkei* Körb., asexual morph unknown, on lichens, hepatics or saprobes, terrestrial or marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Diederich et al. (2013; phylogeny), Pang et al. (2014), Jones et al. (2015), Pino-Bodas et al. (2017; new species, phylogeny), sequence data available.

Dactylosporium Harz 1871, *Ascomycota* genera *incertae sedis*, two species, type: *D. macropus* (Corda) Harz, hyphomycetous, sexual morph unknown, saprobes,

terrestrial, Europe, Cuba, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Daldinia Ces. & De Not. 1863 (= *Annellosporium* M.L. Davey 2010; = *Hemisphaeria* Klotzsch 1843; = *Peripherostoma* Gray 1821; = *Stromatosphaeria* Grev. 1824; = *Versiomyces* Whalley & Watling 1989 *fide* Réblová et al. 2016c; Wendt et al. 2017; see Species Fungorum 2017 for additional synonyms), *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, c. 40 species, type: *D. concentrica* (Bolton) Ces. & De Not., asexual morph hyphomycetous, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), Sir et al. (2016b; new species), Kuhnert et al. (2017; new species, revision), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available.

Dangeardiella Sacc. & P. Syd. 1899, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *D. macrospora* (J. Schröt.) Sacc. & P. Syd., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014e; transferred to *Pleosporales*, genera *incertae sedis*), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Danielozyma Kurtzman & Robnett 2014, *Metschnikowiaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *D. ontarioensis* (Kurtzman & Robnett) Kurtzman & Robnett, asexual reproduction by multilateral budding and from formation of pseudohyphae and true hyphae, saprophyte, in insect frass from various tree species, see Kurtzman and Robnett (2014; taxonomy), cultures and sequences are available.

Darkera H.S. Whitney, J. Reid & Piroz. 1975, *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, five species, type: *D. parca* H.S. Whitney, J. Reid & Piroz., asexual morph coelomycetous, pathogens, terrestrial, Europe, Cuba, see Kirk et al. (2013; genus accepted), Crous et al. (2015b; revision, morphology, DNA, phylogeny), cultures and sequences are available.

Darksidea D.G. Knapp, Kovács, J.Z. Groenew. & Crous 2015, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. alpha* D.G. Knapp, Kovács, Groenewald & Crous, endophytes, see Knapp et al. (2015; phylogeny), cultures and sequences are available.

Dasyscyphella Tranzschel 1898 (= *Lachnaster* Höhn. 1917 *fide* Jaklitsch et al. 2016a), *Lachnaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *D. cassandrae* Tranzschel, asexual morph unknown, saprobes, terrestrial, Asia, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Dasysphaeria Speg. 1912, *Sordariomycetes* genera *incertae sedis*, one species, type: *D. andicola* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015a; outline), cultures and sequences are unavailable.

Dasysticta Speg. 1912, *Ascomycota* genera *incertae sedis*, two species, type: *D. sapindophila* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Davidgallowaya Aptroot 2007, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetidae*, one species, type: *D. cornutispora* Aptroot, asexual morph, unknown, terrestrial, New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Davidiellomyces Crous 2017, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *D. australiensis* Crous, asexual morph unknown, saprobes, Australia, see Crous et al. (2017; taxonomy), holotype: CBS H-23077, cultures and sequences are available.

Davidsoniella Z.W. de Beer, T.A. Duong & M.J. Wingf. 2014, *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, one species, type: *D. virescens* (R.W. Davidson) Z.W. de Beer, T.A. Duong & M.J. Wingf., asexual morph hyphomycetous, endophyte, terrestrial, Thailand, have sequence data, see de Beer et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Davisiella Petr. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *D. elymina* (Davis) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Davisomycella Darker 1967, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, ten species, type: *D. ampla* (Davis) Darker, asexual morph unknown, saprobes, endophytes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequence available for *D. medusa* (BPI842078).

Davisoniella H.J. Swart 1988, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *D. eucalypti* H.J. Swart, coelomycetous, sexual morph teratosphaeria-like, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2014c, 2017), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Dawsicola Döbbeler 1981, *Helotiales* genera *incertae sedis*, one species, type: *D. neglecta* Döbbeler, asexual morph unknown, saprobes, endophytes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dawsomyces Döbbeler 1981, *Dothideomycetes* genera *incertae sedis*, two species, type: *D. mirabilis* Döbbeler, asexual morph unknown, saprobes, endophytes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dawsophila Döbbeler 1981, *Dothideomycetes* genera *incertae sedis*, two species, type: *D. pygmaea* Döbbeler, asexual morph unknown, saprobes, endophytes, terrestrial, New Guinea, New Zealand, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Deakozyma Kurtzman & Robnett 2014, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *D. indianensis* Kurtzman & Robnett, asexual reproduction by multilateral budding and from formation of pseudohyphae and true hyphae, saprophyte, rotting wood, insect eggs, Indiana, Michigan, USA, see Kurtzman and Robnett (2014; taxonomy), cultures and sequences are available.

Dearnessia Bubák 1916, *Ascomycota* genera *incertae sedis*, one species, type: *D. apocyni* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Canada, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Debaryomyces Lodder & Kreger-van Rij 1952, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 15 species, type: *D. hansenii* (Zopf) Lodder & Kreger-van Rij, asexual reproduction by multilateral budding and some species may also form poorly developed pseudohyphae, saprophytic, but several of the species are opportunistic pathogens of humans, soil, sea and fresh water, high osmotic foods such as cheese and sausages, bees, tree exudates, spoiled sake, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Decaisnella Fabre 1878, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, 13 species, type: *D. spectabilis* Fabre, asexual morph unknown, terrestrial and marine, worldwide, see Suetrong et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes* genera *incertae sedis*), Jones et al. (2016; outline), sequences are available for only one species, need recollection to verify generic placement.

Decorospora Inderb., Kohlm. & Volkm.-Kohlm. 2002, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. gaudefroyi* (Pat.) Inderb., Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pleosporaceae*), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015c; phylogeny), Jones et al. (2015; outline), cultures and sequences are available.

Degelia Arv. & D.J. Galloway 1981, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 22 species, type: *D. gayana* (Mont.) Arv. & D.J. Galloway, asexual morph unknown, lichenized, epiphytic or on mossy rocks, Southern hemisphere, in humid regions, see Wedin et al. (2009b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Spribille and Muggia (2013; phylogeny), Ekman et al. (2014; phylogeny, *Degelia* is heterogeneous and excluded the section *Amphiloma* as the genus *Pectenia*), Lücking et al. (2017a; classification), need generic revision.

Degeliella P. M. Jørg 2004, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *D. rosulata* (P.M. Jørg. & D.J. Galloway) P.M. Jørg., asexual morph unknown, lichenized, epiphytic or on mossy rocks, Gondwana distribution, Australia (Tasmania), southernmost South America, see Lumbsch and Huhndorf (2010; outline), Ekman et al. (2014; phylogeny, non-monophyly of the genus), Jorgensen and Andersen (2015; showed that the name *Degeliella* was superfluous and that *Psoromaria* (type: *P. versicolor*) should be taken up for the genus, which is still likely to be non-monophyletic), Lücking et al. (2017b; classification), sequence available for voucher Galloway 840b (BG) of the type.

Deichmannia Alstrup & D. Hawksw. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *M. caespitosa* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Deightoniella S. Hughes 1952 (= *Utrechtiana* Crous & Quaedvl. 2011 *fide* Species Fungorum 2017), *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, 20 species, type: *D. africana* S. Hughes, hyphomycetous, sexual morph unknown, pathogens, terrestrial, worldwide, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Klaubauf et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Zhang et al. (2016d; nomenclature), cultures and sequences are available for *Deightoniella roumeguerei* (CBS 128780).

Dekkera Van der Walt 1964, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, five species, type: *D. bruxellensis* Van der Walt, saprophytic, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Delastria Tul. & C. Tul. 1843, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *D. rosea* Tul. & C. Tul., asexual morph unknown, hypogeous, Europe (southern), Northern America, see Lumbsch and Huhndorf (2010; outline), Alvarado et al. (2011a; DNA, phylogeny), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Delitschia Auersw. 1866 (= *Delitschiella* Sacc. & D. Sacc. 1905; = *Pachyspora* Kirschst. 1907 [1906] *fide* Species Fungorum 2017), *Delitschiaceae*, *Pleosporales*, *Dothideomycetes*, 52 species, type: *D. didyma* Auersw., asexual morph unknown, commonly occurs as coprophilous and saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; morphology and phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Calaça et al. (2015; new variety), holotype of the type: L 1950, cultures available for type: UME 31411.

Delortia Pat. & Gaillard 1888 (= *Hyalotrochophora* Finley & E.F. Morris 1967 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. palmicola* Pat. & Gaillard, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Pantropical, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Delphinella (Sacc.) Kuntze 1898 (= *Diplosphaerella* Grove 1912; = *Glonium* subgen. *Delphinella* Sacc 1891.; = *Hariotia* P. Karst. 1889; = *Pleoglonis* Clem. 1909; = *Rehmiellopsis* Bubák & Kabát 1910 *fide* Species Fungorum 2017), *Dothideaceae*, *Dothideales*, *Dothideomycetes*, eight species, type: *D. strobiligena* (Desm.) Sacc. ex E. Müll. & Arx, asexual morph unknown, saprobes or pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothioraceae*), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; accepted as a genus in *Dothideaceae*), Wijayawardene et al. (2014c; outline), holotype: PC 0084688.

Delpinoella Sacc. 1899, *Sordariomycetes* genera *incertae sedis*, one species, type: *D. insignis* Sacc. & Trotter, asexual morph unknown, saprobes, terrestrial, Canada, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Delpinoina Kuntze 1891 (= *Henriquesia* Pass. & Thüm. 1879 *fide* Species Fungorum 2017), *Ascodichaenaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *D. lusitanica* (Pass. & Thüm.) Kuntze, asexual morph unknown, saprobes, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Delpontia Penz. & Sacc. 1901, ?*Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *D. pulchella* Penz. & Sacc., asexual morph unknown, saprobes, on fern stalks, Java, see Lumbsch and Huhndorf (2010; outline: doubtful position), cultures and sequences are unavailable, classification is not evaluated phylogenetically.

Deltopyxis Baral & G. Marson 2012, *Leotiomycetes* genera *incertae sedis*, one species, type: *D. triangulispora* Baral & G. Marson, saprobes, terrestrial, Luxembourg, see Baral and Marson (2012; taxonomy), Jaklitsch et al. (2016a; classification), a sequence is available.

Dematiocladium Allegr., Aramb., Cazau & Crous 2005, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *D. celtidis* Allegr., Aramb., Cazau & Crous, saprobes, terrestrial, Argentina, China, see Wijayawardene et al. (2012, 2017; outline), Crous et al. (2014c; new species), ex-type: CBS 115994; holotype of the type: LPS 47255, isotype CBS 9921.

Dematiopleospora Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, gen. nov.

Index Fungorum number: IF552175

Description: see Wanasinghe et al. (2014b)

= *Dematiopleospora* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, Cryptog Mycol 35(2): 110 (2014b), Nom. inval., Art. 42.1 (Melbourne)

Type: *Dematiopleospora mariae* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde sp. nov.

Notes: Wanasinghe et al. (2014b) introduced *Dematiopleospora* but it is invalid (Art. 42.1) as the genus and type species both have same identifier IF550536. Three other species are consequently not validly published. Thus, new identifiers have been obtained and species are validly published.

Dematiopleospora alliariae Thambug., Camporesi & K.D. Hyde sp. nov.

Index Fungorum: IF552256

Description: see Hyde et al. (2016) = *Dematiopleospora alliariae* Thambuga., Camporesi & K.D. Hyde, Fungal Diversity 80: 89 (2015); nom. inval., Art. 35.1

Dematiopleospora cirsii Wanas., Camporesi, E.B.G. Jones & K.D. Hyde sp. nov.

Index Fungorum number: IF552282

Description: see Hyde et al. (2016)

= *Dematiopleospora cirsii* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, Fungal Diversity 80: 89 (2015); nom. inval., Art. 35.1

Dematiopleospora luzulae Wanas., Camporesi, E.B.G. Jones & K.D. Hyde sp. nov.

Index Fungorum number: IF552283

Description: see Hyde et al. (2016)

= *Dematiopleospora luzulae* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, Fungal Diversity 75: 103 (2015); nom. inval., Art. 35.1

Dematiopleospora mariae Wanas., Camporesi, E.B.G. Jones & K.D. Hyde sp. nov.

Index Fungorum number: IF552185

Description: see Wanasinghe et al. (2014b)

= *Dematiopleospora mariae* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, Cryptog Mycol 35 (2): 110 (2014); nom. inval., Art. 35.1

Dematioscypha Svrček 1977 (= *Schizocephalum* Preuss 1852; *Haplographium* Berk. & Broome 1859 *fide* Johnston et al. 2014b), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *D. dematiicola* (Berk. & Broome) Svrček, asexual morph hyphomycetous, saprobes, Europe, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), Johnston et al. (2014b; nomenclature), Wijayawardene et al. (2017; outline), type in K herbarium, cultures and sequence data available for *Haplographium delicatum*.

Dencoeliopsis Korf 1971, *Rutstroemiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *D. johnstonii* (Berk.) Korf, asexual morph unknown, saprobes, terrestrial, USA, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dendriscosticta Moncada & Lücking 2013, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, five species, type: *D. wrightii* (Tuck.) Moncada & Lücking, lichenized, see Moncada et al. (2013a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Dendroclathra Voglmayr & G. Delgado 2001, *Hypocreomycetidae* genera *incertae sedis*, *Sordariomycetes*, one species, type: *D. caeruleofusca* Voglmayr & G. Delgado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Dendrodomus Bubák 1915, *Ascomycota* genera *incertae sedis*, one species, type: *D. annulatus* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dendrographa Darb. 1895, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, six species, type: *D. leucophaea* (Tuck.) Darb., lichenized, corticolous and saxicolous, worldwide, see Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011; phylogeny and taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Dendrophoma Sacc. 1880 (= *Amphitiarospora* Agnihothr. 1963 [1962]; = *Dendrophoma* Sacc. 1880; = *Pycnidiochaeta* Sousa da Câmara 1950 *fide* Species Fungorum 2017), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, c. 100 species, type: *D. cytisporoides* Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2008; treated as a synonym of *Dinemasporium*), Crous et al. (2012g; reinstated the genus, DNA, phylogeny), Liu et al. (2015a; new species), Maharachchikumbura et al. (2016b; outline), epitype and ex-epitype: CBS H-12004, CBS 223.95.

Dendrosphaera Pat. 1907, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, one species, type: *D. eberhardtii* Pat., asexual morph hyphomycetous, terrestrial, probably mycorrhizal, Asia, see Houbraken and Samson (2011; morphotaxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, needs phylogenetic assessment.

Dendrospora Ingold 1943, *Ascomycota* genera *incertae sedis*, ten species, type: *D. erecta* Ingold, hyphomycetous, sexual morph unknown, saprobes, terrestrial, north temperate, subtropical, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Duarte et al. (2015; DNA), cultures and sequences are available.

Dendrosporium Plakidas & Edgerton ex J.L. Crane 1972, *Ascomycota* genera *incertae sedis*, three species, type: *D. lobatum* Plakidas & Edgerton ex J.L. Crane, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, North and South America, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Dendryphiella Bubák & Ranoj. 1914, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, nine species, type: *D. interseminata* (Berk. & Ravenel) Bubák, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011 morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2014c, 2016b; new species, phylogeny), cultures and sequences are available.

Dendryphion Wallr. 1833 (= *Brachycladium* Corda 1838; = *Dendryphiella* Bubák & Ranoj. 1914; = *Dwayamala* Subram. 1956; = *Entomyclium* Wallr. 1833 *fide* Species Fungorum 2017), *Torulaceae*, *Pleosporales*, *Dothideomycetes*, 66 species, type: *D. comosum* Wallr., hyphomycetous, sexual morph unknown, saprobes, worldwide, see Kirk et al. (2013; genus accepted), Crous et al. (2015a; phylogeny), Su et al. (2016b; new species,

phylogeny), sequences are available for five species, needed generic placement.

Dendryphiosphaera Lunghini & Rambelli 1978, *Ascomycota* genera *incertae sedis*, four species, type: *D. taiensis* Lunghini & Rambelli, hyphomycetous, sexual morph unknown, Ivory coast, pantropical, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Deniquelata Ariyaw. & K.D. Hyde 2013, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. barringtoniae* Ariyawansa & K.D. Hyde, asexual morph unknown, pathogens, terrestrial, Thailand, see Ariyawansa et al. (2013c, 2014c; morphology, DNA, phylogeny), Hyde et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline, phylogeny), holotype and ex-type of the type: MFLU 12-0303, MFLUCC 12-0257.

Dennisiella Bat. & Cif. 1962 (= *Capnodium* subgen. Microxiphium Harv. ex Berk. & Desm. 1849; = *Microxiphium* (Harv. ex Berk. & Desm.) Thüm. 1879; =Vitalia Cif. & Bat. 1962 *fide* Species Fungorum 2017), *Coccodiniaceae*, *Chaetothyriales*, *Eurotiomycetes*, seven species, type: *D. babingtonii* (Berk.) Bat. & Cif., asexual morph microxyphium-like, saprobes, terrestrial, tropical regions, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as genera in *Coccodiniaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dennisiodiscus Svrcek 1976 (= *Trichodiscus* Kirschst. 1924 *fide* Species Fungorum 2017), *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *D. prasinus* (Quél.) Svrček, asexual morph unknown, saprobes, terrestrial, Europe, Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Dennisiopsis Subram. & Chandrash. 1977, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *D. octospora* Subram. & Chandrash., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dennisographium Rifai 1977, *Ascomycota* genera *incertae sedis*, two species, type: *D. episphaeriae* Rifai, hyphomycetous, sexual morph unknown, Java, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Denticularia Deighton 1972, *Ascomycota* genera *incertae sedis*, seven species, type: *D. modesta* (Syd.) Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dentocircinomyces R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *D. occidentalis* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype: INFAT C88/114, cultures and sequences are unavailable, compare with *Cryptumbellata*, *Hansfordia* and *Redbia*.

Derexia Naras. 1970, *Ascomycota* genera *incertae sedis*, one species, type: *D. lecanii* (Zimm.) Naras., hyphomycetous, sexual morph unknown, on *Lecanium viride*, India, Indonesia, Java, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Dermapteromyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *D. ctenophorus* Thaxt., asexual morph unknown, biotrophic, America (tropical), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dermateopsis Nannf. 1932, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *D. tabacina* (Cooke) Nannf., asexual morph unknown, saprobes, terrestrial, temperate regions, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Dermatiscum Nyl. 1867, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, three species, type: *D. thunbergii* (Ach.) Nyl., asexual morph is coelomycetous, lichenized, saxicolous, South Africa, Madagascar, St. Helena, see Aptroot (2008; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available for the type: AF540507 (ITS).

Dermatocarpon Eschw. 1824 (= *Capnia* Vent. 1799; = *Endocarpomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Endocarpon* subdiv. Entosthelia Wallr. 1831; = *Entosthelia* (Wallr.) Hue 1915; = *Epistictum* Trevis. 1869 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, c. 20 species, type: *D. miniatum* (L.) W. Mann, asexual morph coelomycetous, terrestrial, lichenized, on rocks and soil, cosmopolitan, see Gueidan et al. (2009; phylogeny, outline), Prieto et al. (2012; phylogeny), Lücking et al. (2017a; classification), sequences of the type material of the type are unavailable, but sequences of non-type material are available.

Dermatodothella Viégas 1944, *Polystomellaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *D. multiseptata* Viégas, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, as *Dothideomycetes*, genera *incertae sedis*), Ariyawansa et al. (2013b; morphology, accepted as *Polystomellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dermatodothis Racib. ex Theiss. & Syd. 1914 (= *Phaeophragmocauma* F. Stevens 1931 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, six species, type: *D. javanica* Racib., asexual morph unknown, saprobes, terrestrial, Asia, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dermea Fr. 1825 (= *Bulgariastrum* Syd. & P. Syd. 1913; = *Cenangella* Sacc. 1884; *Dermatea* Fr. 1849 = *Foveostroma* DiCosmo 1978; = *Sphaeronaema* Fr. 1815 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Dermateaceae*, *Helotiales*, *Leotiomycetes*, c. 25 species, type: *D. cerasi* (Pers.) Fr., asexual morphs formerly known in *Sphaeronaema* and *Foveostroma*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Johnston et al. (2014b; nomenclature, new comb.), cultures and sequences are available.

Dermiscellum Hafellner, Mayrhofer, & Poelt 1979, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *D. catawbense* (Willey) Hafellner & Poelt, asexual morph is coelomycetous, lichenized, saxicolous, North America, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; taxonomy), cultures and sequences are unavailable.

Descalsia A. Roldán & Honrubia 1989, *Ascomycota* genera *incertae sedis*, one species, type: *D. cruciata* A. Roldán & Honrubia, hyphomycetous, sexual morph unknown, aquatic, isolated from Spanish streams, South western Europe, Spain, Northwest Portugal, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: IMI 328087, sequences are unavailable.

Desertella Mouch. 1979, *Ascomycota* genera *incertae sedis*, two species, type: *D. globulifera* Mouch., hyphomycetous, sexual morph unknown, from soil, submerged wood in river, Egypt, USA, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures are unavailable, unverified sequences are available (KR230020-KR230041).

Deshpandiella Kamat & Ullasa 1973, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *D. jambolana* (T.S. Ramakr., Sriniv. & Sundaram) Kamat & Ullasa, asexual morph unknown, biotrophic, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Desmazierella Lib. 1829 (= *Verticicladium* Preuss 1851 *fide* Healy et al. 2016), *Chorioactidaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *D. acicola* Lib., asexual morph formerly known in *Verticicladium*, saprobes, terrestrial, India, see Pfister et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Martinović et al. (2016; DNA, phylogeographic structure), cultures and sequences are available.

Desmidiospora Thaxt. 1891, *Ascomycota* genera *incertae sedis*, three species (two fossil), type: *D. myrmecophila* Thaxt., hyphomycetous, sexual morph unknown, terrestrial, pathogen of *Camponotus* ants, North America, Africa, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Devriesia Seifert & N.L. Nick. 2004, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, 24 species, type: *D. staurophora* (W.B. Kendr.) Seifert & N.L. Nick., asexual morph hyphomycetous, saprobes, terrestrial, India, see Schoch et al. (2009; new species, phylogeny), Crous et al. (2011a, 2012c, e; new species, DNA), Frank et al. (2010; new species, DNA, phylogeny), Li et al. (2012a; new species, China), Egidi et al. (2014; new species, DNA, phylogeny), cultures and sequences are available.

Dexhowardia J.J. Taylor 1970, *Ascomycota* genera *incertae sedis*, one species, type: *D. tetraspora* J.J. Taylor, hyphomycetous, sexual morph unknown, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available.

Diaboliumbilicus I. Hino & Katum. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *D. mirabilis* I. Hino & Katum., asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diachora Jul. Müll. 1893 (= *Chaetomelasmia* Danilova 1951; = *Diachorella* Höhn. 1918 *fide* Maharachchikumbura et al. 2016b; Réblová et al. 2016c), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, six species, type: *D. onobrychidis* (DC.) Jul. Müll., asexual morph *Diachorella*, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus

accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Diacrochordon Petr. 1955, *Sordariomycetes* genera *incertae sedis*, six species, type: *D. rehmii* Petr., asexual morph unknown, saprobes, terrestrial, Germany, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Diadema Shoemaker & C.E. Babc. 1989, *Diademaceae*, *Pleosporales*, *Dothideomycetes*, nine species, type: *D. tetramerum* Shoemaker & C.E. Babc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011b; taxonomy), Hyde et al. (2013; taxonomy), Ariyawansa et al. (2014d; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Diademosa Shoemaker & C.E. Babc. 1992, *Diademaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. californiana* (M.E. Barr) Shoemaker & C.E. Babc., asexual morph unknown, saprobes on herbaceous, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2015c; generic placement), Wijayawardene et al. (2014c; outline), sequences unavailable, needed generic placement.

Diademospora B.E. Soderstr. & Bååth 1979, *Ascomycota* genera *incertae sedis*, one species, type: *D. ramigera* B.E. Söderstr. & Bååth, hyphomycetous, sexual morph unknown, from forest soil, coniferous, Sweden, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), ex- type: CBS 427.76, IMI 203569, ATCC 42210.

Dialaceniopsis Bat. 1959 (= *Dialaceniopsis* Bat. 1959; = *Dialacenium* Syd. 1930; = *Englerulella* Hansf. 1946 [1944-45] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. landolphiae* Bat., coelomycetous, sexual morph unknown, from *Landolphia ugandensis*, Uganda, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Dialhypocrea Speg. 1919, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *D. puiggariana* Speg., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2014b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Diamantinia A.N. Mill., Læssøe & Huhndorf 2003, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *D. citrina* A.N. Mill., Læssøe & Huhndorf, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Xylariales*), holotype and extype: SP, Buck 26886.

Diandromyces Thaxt. 1918, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *D. chilenus* Thaxt., asexual morph unknown, biotrophic, Chile, Ecuador, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species, Ecuador), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dianesea (F. Stevens) Inácio & P.F. Cannon 2002, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. palmae* (F. Stevens) Inácio & P.F. Cannon, saprobes, terrestrial, Cost Rica, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), Jayasiri et al. (2016a; re-described type), sequences are unavailable.

Diaphorographis A.W. Archer & Kalb 2009, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *D. queenslandica* Kalb & A.W. Archer, asexual morph unknown, lichenized, terrestrial, tropical, see Kalb et al. (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; taxonomy), Kirk et al. (2013; genus accepted), sequences are unavailable.

Diaphoromyces Thaxt. 1926, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *D. marginatus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diaporthe Nitschke 1870 (= *Allantoporthe* Petr. 1921; = *Aporhytisma* Höhn. 1917; = *Chorostate* (Nitschke ex Sacc.) Traverso 1906; = *Clypeorhynchus* Kirschst. 1936; = *Dialytes* Nitschke 1867; = *Diaporthe* subgen. Chorostate Nitschke ex Sacc. 1882; = *Melanoporthe* Wehm. 1938; = *Phomopsis* (Sacc.) Bubák 1905; = *Septomazzantia* Theiss. & Syd. 1915 *fide* Udayanga et al. 2011, 2012; Rossman et al. 2015a; Maharachchikumbura et al. 2016b), *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, more than 125 species, type: *D. eres* Nitschke, asexual morph coelomycetous, endophytes, pathogens, saprobes, associate with wide host range, worldwide, see Udayanga et al. (2011, 2012, 2014a, b, 2015; review, nomenclature, phylogeny, species complexes), Gomes et al. (2013; taxonomy), Huang et al. (2013; species occur in *Citrus* sp.) Kirk et al. (2013; genus accepted), Dissanayake et al. (2015; new species, phylogeny), Fan et al. (2015b; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2015a; nomenclature), Crous et al. (2016a; taxonomy, phylogeny), Du et al. (2016; *Diaporthe* spp. in *Betula* spp.), Doilom et al. (2017, new species, phylogeny), Santos et al. (2017; new species),

Thambugala et al. (2017a, new species), Yang et al. (2017; new species), holotype and culture ex-epitype: BPI 892912, AR5193.

Diaporthella Petr. 1924, *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *D. aristata* (Fr.) Petr., asexual morph unknown, saprobes, terrestrial, Europe, North America, Eastern Asia, see Lumbsch and Huhndorf (2010; outline), Gomes et al. (2013; DNA), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Diarimella B. Sutton 1980, *Ascomycota* genera *incertae sedis*, three species, type: *D. setulosa* B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Argentina, Canada, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: IMI 103785, cultures and sequences are unavailable, genus need revision.

Diatractium Syd. & P. Syd. 1921, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *D. cordiae* (F. Stevens) Syd. & P. Syd., asexual morph unknown, pathogens, terrestrial, Central and South America, see Palmateer et al. (2008; DNA, pathogens), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available.

Diatrypasimilis J.J. Zhou & Kohlm. 2016 (= *Diatrypasimilis* J.J. Zhou & Kohlm. 2010 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *D. australiensis* J.J. Zhou & Kohlm., asexual morph unknown, saprobes, on mangroves, Central and South America, see Palmateer et al. (2008; DNA, pathogens), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline; taxonomy), Index Fungorum (2017; validate the genus), cultures and sequences are available.

Diatrype Fr. 1849 (= *Ectosphaeria* Speg. 1921; = *Libertella* Desm. 1830; = *Phaeotrype* Sacc. 1920; = *Pyrenodochium* Bonord. 1851' = *Stictosphaeria* Tul. & C. Tul. 1863; = *Valsa* Adans. 1763 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, cf. 60 species, type: *D. disciformis* (Hoffm.) Fr., asexual morph formerly known in *Libertella*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2015a; new species), Maharachchikumbura et al. (2015b, 2016b; outline; taxonomy), Senanayake et al. (2015; phylogeny, outline), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Diatrypella (Ces. & De Not.) De Not. 1863 (= *Diatrype* sect. Diatrypella Ces. & De Not. 1863; = *Sphaerosperma* Preuss 1853 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, c. 35 species, type: *D. verruciformis* (Ehrh.) Nitschke, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline; taxonomy), Mehrabi et al. (2015; new species), Senanayake et al. (2015; phylogeny, outline), Almeida et al. (2016; new species, phylogeny), Crous et al. (2016a; new species, phylogeny), Shang et al. (2017, new species, phylogeny), cultures and sequences are available.

Diatrypoidiella Manohar., Kunwar & D.K. Agarwal 2005, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *D. lignicola* Manohar., Kunwar & D.K. Agarwal, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline; taxonomy), holotype of the type: HCIO 43762, cultures and sequences are unavailable.

Dibaeis Clem. 1909 (= *Tubercularia* Weber ex F.H. Wigg. 1780; = *Verrucaria* Scop. 1777 *fide* Species Fungorum 2017), *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, 13 species, type: *D. rosea* (Pers.) Clem., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2015a; phylogeny), Lücking et al. (2017a; classification), culture available for the type: AFTOL-ID 358.

Dicephalospora Spooner 1987, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *D. calochroa* (Syd.) Spooner, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Liu et al. (2016b; new species), cultures and sequences are available.

Dichelostroma Bat. & Peres 1963, *Ascomycota* genera *incertae sedis*, one species, type: *D. powellii* Bat. & Peres, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), data inadequate, cultures and sequences are unavailable.

Dichlaena Durieu & Mont. 1849, *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, four species, type: *D. lentisci* Durieu & Mont., asexual morph hyphomycetous, terrestrial, saprobes, occurring on decaying plant material, wood and dung, Algeria, Brazil, India, Italy, Mauritania, USA, see Houbraken and Samson (2011), cultures and sequences are unavailable, needs phylogenetic assessment.

Dicholobodigitus G.P. White & Illman 1988, *Ascomycota* genera *incertae sedis*, one species, type: *D. niger* G.P. White & Illman, hyphomycetous, sexual morph unknown, on rotten wood of *Pinus contorta*, Canada, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dichosporidium Pat. 1903 (= *Dichosporium* Pat. 1899 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, eight species, type: *D. glomeratum* (Pat.) Pat., asexual morph unknown, lichenized, widespread (tropical), corticolous (occasionally saxicolous), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ertz et al. (2015c; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Dichotomophthora Mehrl. & Fitzp. ex P.N. Rao 1966, *Ascomycota* genera *incertae sedis*, four species, type: *D. portulacae* Mehrl. & Fitzp. ex P.N. Rao, hyphomycetous, sexual morph unknown, on living leaves and stems of *Portulacca oleracea*, Hawaii, USA, widespread (esp. tropical), see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Dichotomophthoropsis M.B. Ellis 1971, *Ascomycota* genera *incertae sedis*, two species, type: *D. nymphaearum* (F.V. Rand) M.B. Ellis, hyphomycetous, sexual morph unknown, plant pathogen, India, USA, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), reference strain of *D. nymphaearum* = ATCC 64770, ATCC 204261-204266, sequences are unavailable.

Dichotophora Whitton, K.D. Hyde & McKenzie 2012, *Ascomycota* genera *incertae sedis*, two species, type: *D. setiramosa* Whitton, McKenzie & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Whitton et al. (2012a; outline), Wijayawardene et al. (2012, 2017; outline), holotype: IFRD 9016, cultures and sequences are unavailable.

Diclonomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *D. eumicrophilus* Thaxt., asexual morph unknown, biotrophic, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dictyoaquaphila J.S. Monteiro, L.B. Conc., M.F.O. Marques, Gusmão & R.F. Castañeda 2016, *Ascomycota* genera *incertae sedis*, two species, type: *D. appendiculata* J.S. Monteiro, L.B. Conc., M.F.O. Marques, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobic, terrestrial, fresh water, Brazil, Mexico see Arias et al. (2016; taxonomy), Monteiro et al. (2016a; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Dictyoarthrinium S. Hughes 1952, *Apiosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, six species, type: *D. quadratum* S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread (tropical), see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), Crous and Groenewald (2013; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are unavailable for type species.

Dictyoasterina Hansf. 1947, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. conopharyngiae* Hansf., asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; accepted as genus in *Venturiaceae*), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dictyocatenulata Finley & E.F. Morris 1967, *Ostropomycetidae* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *D. alba* Finley & E.F. Morris, hyphomycetous, sexual morph unknown, saprobes, Karnataka, India, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), An et al. (2012; phylogenetic revision), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Dictyoceratosporella Y.R. Ma & X.G. Zhang 2016, *Ascomycota* genera *incertae sedis*, three species, type: *D. cordata* Y.R. Ma & X.G. Zhang, hyphomycetous, sexual morph unknown, saprobic, terrestrial, China, see Ma et al. (2016d; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Dictyochaeta Speg. 1923 (= *Codinaeopsis* Morgan-Jones 1972; = *Dictyochaetopsis* Aramb. & Cabello 1990; = *Menisporella* Agnihothr. 1962 *fide* Seifert et al. 2011; Species Fungorum 2017), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, c. 80 species, type: *D. fuegiana* Speg., hyphomycetous, sexual morph *unknown*, saprobes, terrestrial/aquatic, widespread, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Silva and Gusmão (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Liu et al. (2016a; new species, phylogeny), cultures and sequences are available but lacking for type species.

Dictyocheirospora D'souza, Boonmee & K.D. Hyde 2016, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. rotunda* D'souza, Bhat & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, Thailand, see Boonmee et al. (2016a; phylogeny), Wang et al. (2016f; new species, phylogeny), Wijayawardene

et al. (2017; outline), holotype: MFLUCC 14-0293, cultures and sequences are available.

Dictyocoprotus J.C. Krug & R.S. Khan 1991, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *C. nipigonensis* Malloch & Cain, asexual morph unknown, coprophilous, terrestrial, Mexico, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dictyocyclus Sivan., W.H. Hsieh & Chi Y. Chen 1998, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *D. hydrangeae* Sivan., W.H. Hsieh & Chi Y. Chen, asexual morph unknown, epiphytes, terrestrial, Taiwan, see Hofmann (2009; review, accepted as a genus in *Parmulariaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Parmulariaceae*), Hyde et al. (2013; review, keys, accepted as a genus in *Parmulariaceae*), Dissanayake et al. (2014; taxonomy, accepted as a genus in *Myriangiaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Myriangiaceae*), placement in *Myriangiaceae* supported by morphology, holotype: IMI 371179, cultures and sequences unavailable.

Dictyodesmium S. Hughes 1951, *Ascomycota* genera *incertae sedis*, four species, type: *D. ulmicola* (Ellis & Kellerm.) S. Hughes, hyphomycetous, sexual morph unknown, on living leaves of *Ulmus fulva*, USA, France, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dictyodochium Sivan. 1984, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. prinsepiae* Sivan., asexual morph unknown, saprobes, terrestrial, Africa, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*, genera *incertae sedis*), data inadequate, cultures and sequences are unavailable.

Dictyodothis Theiss. & Syd. 1915, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, two species, type: *D. berberidis* (Rehm) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, America, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; accepted as a genus in *Dothideaceae*), Wijayawardene et al. (2014c; outline), sequences are available.

Dictyographa Müll. Arg. 1893, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *D. arabica* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline, treated as a synonym of *Opegrapha*), Ertz and Tehler (2011; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Dictyomeridium Aptroot, M.P. Nelsen & Lücking 2016, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, seven species, type: *D. proponens* (Nyl.) Aptroot, M.P. Nelsen & Lücking, asexual morph unknown, lichenized, terrestrial, tropical, see Aptroot and Lücking (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Dictyonella Höhn. 1909 (= *Angiotheca* Syd. 1939; = *Calopeziza* Syd. & P. Syd. 1913; = *Ekmanomyces* Petr. & Cif. 1932; = *Masonia* Hansf. 1944 *fide* Species Fungorum 2017), *Saccardiaceae*, *Ascomycota* families *incertae sedis*, seven species, type: *D. erysiphoides* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), data inadequate, cultures and sequences are unavailable.

Dictyopalmispora Pinruan, Boonmee & K.D. Hyde 2016, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. palmae* Pinruan & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, Thailand, see Boonmee et al. (2016a; phylogeny), Wijayawardene et al. (2017; outline), holotype: BBH 39848, cultures and sequences are available.

Dictyopeltella Bat. & I.H. Lima 1959, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, two species, type: *D. domingensis* (Petr. & Cif.) Bat. & I.H. Lima, asexual morph unknown, saprobes, terrestrial, tropical see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dictyopeltis Theiss. 1913, *Dothideomycetes* genera *incertae sedis*, six species, type: *D. vulgaris* (Racib.) Theiss., asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline, as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*, genera *incertae sedis*), data inadequate, cultures and sequences are unavailable.

Dictyophrynella Bat. & Cavalc. 1964, *Ascomycota* genera *incertae sedis*, one species, type: *D. bignoniacearum* Bat. & Cavalc., hyphomycetous, sexual morph unknown, lichenicolous, Brazil, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Dictyopolyschema M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, one species, type: *D. pirozynskii*, hyphomycetous, sexual morph unknown, saprobes on dead twigs of *Picea*, Great Britain, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), ex-type: IMI 89652, sequences are unavailable.

Dictyoporthe Petr. 1955, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *D. ahmadii* Petr., asexual morph unknown, saprobes, terrestrial, Pakistan, Taiwan, see Voglmayr and Jaklitsch (2008; DNA, transferred *Dictyoporthe acerophila* M.E. Barr to *Prosthecium*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are available.

Dictyorostrella U. Braun 1999, *Ascomycota* genera *incertae sedis*, one species, type: *D. caricicola* (U. Braun & Melnik) U. Braun, asexual morph hyphomycetous, terrestrial, foliicolous, Asia (Far East of Russia), North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: DAOM, cultures and sequences are unavailable.

Dictyospiropes M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, one species, type: *D. ziziphi* M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dictyospora Brahamanage, Y.Z. Lu, Boonmee & K.D. Hyde 2017, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, two species, type: *D. thailandica* Brahamanage, Y.Z. Lu, Boonmee & K.D. Hyde, asexual morph hyphomycetous, saprobes, aquatic, Asia, see Brahamanage et al. (2017; taxonomy, phylogeny), holotype of the type: MFLU 17-0500, cultures and sequences are available.

Dictyosporella Abdel-Aziz 2015, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *D. aquatica* Abdel-Aziz, asexual morph unknown, saprobes, aquatic, Egypt, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type: CBS H-22127, MD1302.

Dictyosporium Corda 1836 (= *Botryosporium* Schwein. 1832 [1834]; = *Cattanea* Garov. 1875; = *Speira* Corda 1837; = *Synphragmidium* F. Strauss 1853 *fide* Species Fungorum 2017), *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, c. 50 species, type: *D. elegans* Corda, hyphomycetous, saprobes, terrestrial, aquatic, widespread, see Crous et al. (2009a; new species), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species), Abdel-Aziz (2016b; new species), Boonmee et al. (2016a; new species), cultures available for type species NBRC 32502.

Dictyostomiopelta Viégas 1944, *Dothideomycetes*, genera *incertae sedis*, one species, type: *D. manihoticola* Viégas, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Dictyothyriella Speg. 1924, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. bauhiniae* (Rehm) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, Cape Horn, see Lumbsch and Huhndorf (2010; outline, as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Dictyothyrina Theiss. 1913, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. fecunda* (Sacc.) Theiss., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Dictyothyrium Theiss. 1912, *Dothideomycetes* genera *incertae sedis*, two species, type: *D. chalybeum* (Rehm) Theiss., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline, as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Diddensiella Péter, Dlauchy & Kurtzman 2012, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, three species, type: *D. caesifluorescens* G. Péter, Dlauchy & Kurtzman, asexual reproduction is by multilateral budding, saprophytic, rotten wood and forest litter, worldwide, see Péter et al. (2012; taxonomy), sequences are available.

Didonia Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, five species, type: needs typification, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Didymascella Maire & Sacc. 1903 (= *Keithia* Sacc. 1892 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *D. oxycedri* Maire & Sacc., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available for *Didymascella thujina*.

Didymascus Sacc. 1896, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *D. metkinoffi* Sacc.,

asexual morph unknown, saprobes, terrestrial, Siberia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Didymella Sacc. 1880 (= *Arcangelia* Sacc.1890; = *Dothisphaeropsis* Höhn. 1919; = *Haplotheciella* Höhn. 1918; = *Lichenosphaeria* Bornet 1873; = *Mycosphaerellopsis* Höhn. 1918 *fide* Hyde et al. 2013; Species Fungorum 2017), *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. 100 species, type: *D. exigua* (Niessl) Sacc., asexual morph coelomycetous, saprobes, pathogens, terrestrial, worldwide, see de Gruyter et al. (2009; phylogeny), Aveskamp et al. (2010; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Didymellaceae*, taxonomy), Wijayawardene et al. (2014c; outline), Chen et al. (2015b; phylogeny, new species, taxonomy), Liu et al. (2015a; new species), Thambugala et al. 2017b, new species, phylogeny), cultures and sequences are available.

Didymellocamarosporium Wijayaw., Camporesi, D.J. Bhat & K.D. Hyde 2016, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. tamaricis* Wijayaw., Camporesi, D.J. Bhat & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2016b, 2017; taxonomy, phylogeny, outline), holotype and ex-type: MFLU 15–3548, MFLUCC 14–0241.

Didymellopsis (Sacc.) Clem. & Shear 1931 (= *Didymella* subgen. *Didymellopsis* Sacc. 1905 *fide* Species Fungorum 2017), *Xanthopyreniaceae*, *Collemopsidiales*, *Dothideomycetes*, five species, type: *D. latitans* (Nyl.) Sacc. ex Clem. & Shear, asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, family placed as *Ascomycota* families *incertae sedis*), Kirk et al. (2013; genus accepted), Zhurbenko et al. (2015b; new species), holotype: H–NYL 42670.

Didymobotryum Sacc. 1886, *Sordariomycetes* genera *incertae sedis*, one species, type: *D. rigidum* (Berk. & Broome) Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), cultures available for type: JCM 8837.

Didymochaetina Bat. & J.L. Bezerra 1965, *Ascomycota* genera *incertae sedis*, one species, type: *D. galactiae* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, saprobes, terrestrial, Jamaica, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Didymochora Höhn. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *D. betulina* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Jamaica, see Wijayawardene et al. (2012, 2014c; outline, listed under *Mycosphaerellaceae* and *Dothideomycetes*, genera *incertae sedis* respectively), cultures and sequences are unavailable.

Didymocoryne Sacc. & Trotter 1913, *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, type: *D. striata* (Ellis & Everh.) Sacc. & Trotter, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; reduced *D. solitaria* (Rehm) Sacc. & Trotter under *Ascocoryne albida* (Berk.) Seifert, cultures and sequences are unavailable.

Didymocrea Kowalski 1965, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. sadasivanii* (T.K.R. Reddy) Kowalski, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Didymosphaeriaceae*), Ariyawansa et al. (2014e; accepted as a genus in *Didymosphaeriaceae*, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), cultures available for type: CBS 438.65.

Didymocyrtidium Vain. 1921, *Dothideomycetes* genera *incertae sedis*, two species, type: need typification, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Didymocyrtis Vain. 1921 (= *Didymocyrtis* Vain. 2015; = *Diederichia* D. Hawksw. 2003 *fide* Ertz et al. 2015a; Species Fungorum 2017), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 20 species, type: *D. consimilis* Vain., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), Ertz et al. (2015a; taxonomy), cultures and sequences are unavailable.

Didymolepta Munk 1953, *Dothideomycetes* genera *incertae sedis*, two species, type: *D. winteriana* (Sacc.) Munk, asexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Didymopleella Munk 1953, *Dothideomycetes* genera *incertae sedis*, four species, type: *D. cladii* (P. Larsen & Munk) Munk, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Didymosphaeria Fuckel (1870) [1869–70] (= *Cryptodidymosphaeria* (Rehm) Höhn. 1917; = *Didymascina* Höhn. 1905; = *Didymosphaerella* Cooke 1889; = *Didymosphaeria* subgen. *Cryptodidymosphaeria* Rehm 1906; = *Haplovalsaria* Höhn. 1919; = *Massariellops* Curzi 1927 *fide* Species Fungorum 2017),

Didymosphaeriaceae, *Pleosporales*, *Dothideomycetes*, 25 species, type: *D. futilis* (Berk. & Broome) Rehm, asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014a, d; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type species.

Didymosporiella Traverso & Migliardi 1911, *Ascomycota* genera *incertae sedis*, type: *D. aeluropodis* Traverso & Migliardi, Kirk et al. (2008; treated as nom. dub.), Kirk et al. (2013; genus accepted).

Didymosporina Höhn. 1916 (= *Phaeomarssonia* Bubák 1915 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. aceris* (Lib.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Didymostilbe Henn. 1902 (= *Putagraivam* Subram. & Bhat 1978 *fide* Species Fungorum 2017), *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, eight species, type: *D. coffeae* Henn., hyphomycetous, saprobes, terrestrial, Asia, see Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Bionectriaceae*), Lombard et al. (2016; phylogeny), cultures and sequences are available.

Didymothozetia Rangel 1915 (= *Dithozetia* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. mimosoensis* Rangel, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Didysimulans Tibpromma, Camporesi & K.D. Hyde 2017, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *D. mezzanensis* Tibpromma, Camporesi & K.D. Hyde, asexual morph with chlamydospores, saprobes, terrestrial, Italy, see Tibpromma et al. (2017b; ntaxonomy), holotype of the type: MFLU 15-1490, cultures and sequences are available.

Diedickea Syd. & P. Syd. 1913, *Ascomycota* genera *incertae sedis*, three species, type: *D. singularis* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diehliomyces Gilkey 1954, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *D. microsporus* (Diehl & E.B. Lamb.) Gilkey, asexual morph unknown, fungicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, treated as *Ascomycota*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Diffractella Guarro, P.F. Cannon & Aa 1991, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *D. curvata* (Fuckel) Guarro, P.F. Cannon & Aa, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Digicatenosporium S.M. Leão, Gusmão & R.F. Castaneda 2015, *Ascomycota* genera *incertae sedis*, one species, type: *D. polyramosum* S.M. Leão, Gusmão & R.F. Castaneda, hyphomycetous, sexual morph unknown, saprobes, Brazil, see Leão-Ferreira et al. (2015; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Digitodesmium P.M. Kirk 1981, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *D. elegans* P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, Europe, see Silvera-Simon et al. (2010; new species), Seifert et al. (2011; morphology), Boonmee et al. (2016a; phylogeny), Wijayawardene et al. (2017; outline), holotype: BBH 39848, cultures and sequences are available.

Digitodochium Tubaki & Kubono 1989, *Ascomycota* genera *incertae sedis*, one species, type: *D. rhodoleucum* Tubaki & Kubono, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Digitomyces Mercado, M. Calduch & Gené 2003, *Ascomycota* genera *incertae sedis*, one species, type: *D. verrucosus* (Tzean & J.L. Chen) Mercado, M. Calduch & Gené, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Digitopodium U. Braun, Heuchert & K. Schub. 2005, *Ascomycota* genera *incertae sedis*, one species, type: *D. hemileiae* (Steyaert) U. Braun, Heuchert & K. Schub., hyphomycetous, sexual morph unknown, terrestrial, fungicolous, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: BPI 426854.

Digitoramispora R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, three species, type: *D. caribensis* R.F. Castaneda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes,

terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: INIFAT C89/167, cultures and sequences are unavailable, compare with *Acrodictys*, *Acrodictyopsis*, *Cheiroidea* and *Cryptocoryneopsis*.

Digitosarcinella S. Hughes 1984, *Englerulaceae*, *Dothideomycetes*, families *incertae sedis*, three species, type: *D. casearia*e S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Digitothyrea P.P. Moreno & Egea 1992, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *D. rotundata* (Büdel, Henssen & Wessels) P.P. Moreno & Egea, asexual morph unknown, lichenized, Africa, Central America, saxicolous, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Dilophospora Desm. 1840 (= *Lidophia* J. Walker & B. Sutton 1974 *fide* Rossman et al. 2016a), *Dothideomycetes* genera *incertae sedis*, c. two species, type: *D. graminis* Desm., coelomycetous, sexual morph formerly named in *Lidophia*, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Diluviicola K.D. Hyde, S.W. Wong & E.B.G. Jones 1998, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, type: *D. capensis* K.D. Hyde, S.W. Wong & E.B.G. Jones, asexual morph unknown, saprobes, fresh water, Brunei, see Lumbsch and Huhndorf (2010; outline, misspelled as *Diluvicola*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; accepted as a genus in *Annulatascaceae*, misspelled as *Diluvicola*), cultures and sequences are unavailable.

Dimastigosporium Faurel & Schotter 1965, *Ascomycota* genera *incertae sedis*, two species, type: *D. musimonum* Faurel & Schotter, coelomycetous, sexual morph unknown, saprobes, terrestrial, Sahara, India, see Yadav and Bhat (2009a; new species, India), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dimelaena Norman 1852 (= *Beltraminia* Trevis. 1857; = *Dimelaena* sect. *Dimelaena* Norman 1853 [1852] *fide* Species Fungorum 2017), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, c. ten species, type: *D. oreina* (Ach.) Norman, asexual morph unknown, lichenized, lichenicolous, saxicolous, on siliceous or basaltic rocks, world-wide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Knudsen et al. (2013b; key), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny; showed that *Dimelaena* is non-monophyletic as currently circumscribed), sequences are available.

Dimeriella Speg. 1908, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *D. hirtula* Speg., asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dimerina Theiss. 1912 (= *Chilemyces* Speg. 1910; = *Dimerinopsis* Syd. & P. Syd. 1917; = *Dimeriopsis* F. Stevens 1917; = *Pilula* Massee 1910; = *Plactogene* Theiss. 1917 [1916]; = *Stigme* Syd. & P. Syd. 1917 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, c. ten species, type: *D. strychni* (Henn.) Theiss., asexual morph unknown, saprobes, terrestrial, Sahara, India, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dimerium (Sacc. & P. Syd.) McAlpine 1903 (= *Dimerium* (Sacc. & P. Syd.) Sacc. & D. Sacc. 1905; = *Dimerosporium* subgen. *Dimerium* Sacc. & P. Syd. 1902; = *Phaeocapnodinula* Speg. 1921 *fide* Species Fungorum 2017), *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *D. pulveraceum* (Speg.) Theiss., see Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; did not include), data inadequate.

Dimeromyces Thaxt. 1896 (= *Eudimeromyces* Thaxt. 1918; = *Jeaneliomyces* Lepesme 1945 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 114 species, type: *D. africanus* Thaxt., asexual morph unknown, biotrophic, worldwide, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species, Ecuador), Kirk et al. (2013; genus accepted), Rossi et al. (2015; new species, Ecuador), cultures and sequences are unavailable.

Dimerosporiella Speg. 1908 (= *Epinectria* Syd. & P. Syd. 1917 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, seven species, type *D. paulistana* Speg. on living leaves, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: LPS, cultures and sequences are unavailable.

Dimidiographa Ertz & Tehler 2011, *Roccellographaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *D. loandensis* (Nyl.) Ertz, Bungartz & Tehler, sexual morph with lirelliform ascomata, coelomycetous, lichenized, terrestrial, tropical, see Ertz and Tehler (2011; taxonomy, phylogeny), Lücking et al. (2017a; classification), sequences are available for three species.

Dimorphiopsis Crous 2013, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *D. brachystegiae* Crous, coelomycetous or hyphomycetous, sexual morph unknown, Zambia, see Crous et al. (2013b; morphology, DNA), Wijayawardene et al. (2014c, 2016b; outline, morphology, phylogeny), holotype and ex-type: CBS H-21430, CPC 22679, 22680 = CBS 136422.

Dimorphiseta L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *D. terrestris* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-type: CBS H-22442, CBS 127345.

Dimorphomyces Thaxt. 1893, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 27 species, type: *Dimorphomyces denticulatus* Thaxt., asexual morph unknown, parasites, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species), cultures and sequences are unavailable.

Dimorphospora Tubaki 1958, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *D. foliicola* Tubaki, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Dimorphotricha Spooner 1987, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *D. australis* Spooner, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dinemasporium Lév. 1846, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, 35 species, type: *D. graminum* (Lib.) Lév., coelomycetous, sexual morph unknown, saprobes, worldwide, see Crous et al. (2012g, 2014c; new species, morphology, phylogeny), Hashimoto et al. (2015a; morphology, phylogeny), Liu et al. (2015a; morphology, phylogeny), Wijayawardene et al. (2016b, 2017; morphology, outline), isotype, epitype and ex-epitype: K(M) 175981, CBS H-20952, CBS 828.84.

Dingleya Trappe 1979, *Tuberaceae*, *Pezizales*, *Pezizomycetes*, six species, type: *D. verrucosa* Trappe, asexual morph unknown, pathogens, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Dioicomyces Thaxt. 1901, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 32 species, type: *D. anthici* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bernardi et al. (2014; Ecuador), cultures and sequences are available for unidentified species.

Diorygma Eschw. 1824, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 71 species, type: *D. hieroglyphica* (Pers.) Staiger & Kalb, asexual morph unknown, lichenized, terrestrial, tropical, see Archer (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2012; DNA, phylogeny), Rivas Plata et al. (2012a; taxonomy), Kirk et al. 2013 (genus accepted), Feuerstein et al. (2014; key), Lumbsch et al. (2014a, b; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type.

Diphymyces I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 32 species, type: *D. appendiculatus* (Thaxt.) I.I. Tav., asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Rossi and Santamaria (2010; new species), Kirk et al. (2013; genus accepted), Haelewaters et al. (2014a; new species), cultures and sequences are available for unidentified species.

Diplacella Syd. 1930, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, 32 species, type: *D. paulliniae* (Gonz. Frag. & Cif.) Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for unidentified species.

Diplocarpa Massee 1895, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *D. curreyana* Massee, asexual morph unknown, fungicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dermateaceae*), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny, treated as a genus in *Cordieritidaceae*), cultures and sequences are available, cultures available for type: KL317.

Diplocarpon F.A. Wolf 1912 (= *Entomosporium* Lév. 1857; = *Bostrichonema* Ces. 1867; = *Marssonina* Magnus 1906; = *Entomopeziza* Kleb. 1914 *fide* Johnston et al. 2014b), *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *D. rosae* F.A. Wolf, asexual morph *Entomosporium*; *Marssonina*, pathogens, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available.

Diplochorina Gutner 1933, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. naumovii* Gutner, asexual morph unknown, saprobes, terrestrial, USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available for unidentified species.

Diplocladiella G. Arnaud ex M.B. Ellis 1976 (= *Diplocladiella* G. Arnaud 1954 [1953] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. scalaroides* G. Arnaud ex M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diplococcium Grove 1885 (= *Luxuriomyces* R.F. Castañeda 1988; = *Tretendophragmia* Subram. 1995 [1992–1993]; = *Tretendophragmia* Subram. 1994 [1991] *fide* Species Fungorum 2017), *Helminthosphaeriaceae*, *Sordariomycetidae*, families *incertae sedis*, *Sordariomycetes*, c. 25 species, type: *D. spicatum* Grove, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Shenoy et al. (2010; phylogeny, polyphyletic), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Hernández-Restrepo et al. (2012b; new species, key), Ma et al. (2012h, new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Silva et al. (2014b; new species), Almeida et al. (2015, new species), Maharachchikumbura et al. (2016b; outline, accepted as a genus in *Helminthosphaeriaceae*), cultures available for type species CBS 162.47, CBS 852.73.

Diplodia Fr. 1834 (= *Cryptosphaeria* Grev. 1822; = *Diplodia* a *Eudiplodia* Sacc. 1880; = *Diplodia* b *Botryodiplodia* Sacc. 1880; = *Holcomyces* Lindau 1904 [1905] *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, 23 species, type: *D. mutila* (Fr.) Mont., holomorph, asexual morph coelomycetous, endophytes, pathogens, saprobes, associated with cankers, dieback and fruit rot, worldwide, see Phillips et al. (2008, 2013; morphology, phylogeny), Liu et al. (2012b; morphology, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Yan et al. (2013; species associated with grpe wine), Alves et al. (2014; morphology, phylogeny), Wijayawardene et al. (2016b; morphology, phylogeny), holotype and ex-epitype: BPI 599153 and CBS 136014,

Diplodinis Clem. 1931, *Ascomycota* genera *incertae sedis*, one species, type: *D. rostrupi* (Vestergr.) Clem., coelomycetous, sexual morph unknown, saprobes, terrestrial, Scandinavia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diplodinula Tassi 1902, *Ascomycota* genera *incertae sedis*, one species, type: need typification, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diplogelasinospora Cain 1961, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, three species, type: *D. princeps* Cain, asexual morph unknown, saprobes, terrestrial, Asia, North America, see Lumbsch and Huhndorf (2010; outline, accepted as genus in *Lasiosphaeriaceae*), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species, DNA), Maharachchikumbura et al. (2016b; outline, accepted as a genus in *Chaetomiaceae*), cultures and sequences are available.

Diplogramma Müll. Arg. 1891 (= *Diplogrammatomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *D. australiensis* Müll. Arg., lichenized, Australia, epiphytic, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; treated as a synonym of *Opegrapha*), sequences are unavailable.

Diploicia A. Massal. 1852 (= *Buelliomyces* E.A. Thomas ex Cif. & Tomas. 1953 [1952]; = *Diplotomma* A. Massal. 1852 *fide* Species Fungorum 2017), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, c. twelve species, type: *D. canescens* (Dicks.) A. Massal., asexual morph unknown, lichenized, corticolous, worldwide, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Bungartz et al. (2016: generic concept, key to all species; discussed the distinction from *Diplotomma*, but showed both are distinct), Lücking et al. (2017a; classification), sequence are available for voucher MAF 8656 of the type.

Diplolaeviopsis Giralt & D. Hawksw. 1991, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *D. ranula* Giralt & D. Hawksw., on lichens, sexual morph unknown, see Kirk et al. (2013; genus accepted), Suija et al. (2015b; position), Pärtel et al. (2017; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype of type: BCC-Lich 4120.

Diplomyces Thaxt. 1895, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *D. actobianus* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Diplonaevia Sacc. 1889 (= *Asteronaevia* Petr. 1929; = *Hysteropezizella* sect. Pyrenodiscus (Petr.) Nannf. 1932; = *Merostictis* Clem. 1909; = *Pyrenodiscus* Petr. 1927 *fide* Species Fungorum 2017), *Calloriaceae*, *Helotiales*, *Leotiomycetes*, 23 species, type: *D. caricum* (Auersw.) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diploöspora Grove 1916, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *D. rosea* Grove, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Diploplenodomus Died. 1912 (= *Sclerochaetella* Höhn. 1917 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *D. malvae* Died. ex Died., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diplopodomyces W. Rossi & Balazuc 1977, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *D. callipodos* W. Rossi & Balazuc, asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Santamaría et al. (2014; new species), cultures and sequences are unavailable.

Diploschistella Vain. 1926, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *D. urceolata* Vain., lichenized, pantropical, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Diploschistes Norman 1852 (= *Diploschistomyces* Werner 1976; = *Gyalecta* Eaton 1829; = *Lagerheimina* Kuntze 1891; = *Lectularia* Stirt. 1879 [1878]; = *Patellaria* Hoffm. 1789 [1790]; = *Polyschistes* J. Steiner 1898; = *Protoschistes* M. Choisy 1928; = *Urceolaria* Ach. 1803; = *Urceolariomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 33 species, type: *D. scruposus* (Schreb.) Norman, asexual morph coelomycetous, lichenized (young states sometimes parasitic), on rocks, soil or over mosses and other lichens, worldwide, see Lumbsch and Huhndorf (2010; outline), Fermández-Brime et al. (2013; phylogeny), Mangold et al. (2009; key, Australia), Rivas Plata et al. (2010a, 2012a; key, taxonomy), Kirk et al. (2013; genus accepted), Wang et al. (2013b; new species), Lücking et al. (2017a; classification), cultures available for the type: AFTOL-ID 98.

Diplosporonema Höhn. 1917 (= *Phragmosporonema* Moesz 1934 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. delastrei* (Lacroix) Höhn. ex Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diplotomma Flot. 1849 (= *Abacina* Norman 1853 [1852] *fide* Species Fungorum 2017), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 30 species, type: *D. alboatrum* (Hoffm.) Flot., lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available for voucher MP5 of the type species.

Diplozythiella Died. 1916, *Ascomycota* genera *incertae sedis*, one species, type: *D. bambusina* Died., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dipodascopsis Batra & P. Millner emend. Kurtzman, Albertyn & Basehoar-Powers 2007 (= *Babjevia* Van der Walt & M.T. Sm. 1995 *fide* Kurtzman et al. 2007), *Lipomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, three species, type: *D. uninucleata* (Biggs) L.R. Batra & Millner, asexual reproduction by multilateral budding and pseudohyphae may be present, saprophytic, soil, wood, fruit fly, Canada, USA, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kurtzman and Robnett (2013b; DNA, phylogeny), sequences are available.

Dipodascus de Lagerheim 1892 (= *Endyllium* Clem. 1931; = *Fermentotrichon* E.K. Novák & Zsolt 1961; = *Galactomyces* Redhead & Malloch 1977; = *Geotrichum* Link 1809; = *Magnusiomyces* Zender 1926 [1925]; = *Oosporoidea* Sumst. 1913; = *Polymorphomyces* Coupin 1914; = *Zendera* Redhead & Malloch 1977 *fide* Species Fungorum 2017), *Dipodascaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *D. albidus* Lagerh., asexual reproduction present (arthroconidia, chlamydospores may be formed), saprophytic, insects, insect galleries in pine trees, fluxes from trees, mushroom gills, cacti, worldwide, see Nagahama et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Dipodomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *D. monstruosus* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Diporotheca C.C. Gordon & C.G. Shaw 1961, *Diporothecaceae*, *Ascomycota* families *incertae sedis*, two species, type: *D. rhizophila* C.C. Gordon & C.G. Shaw, asexual morph unknown, saprobes, terrestrial, aquatic, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hawksworth

et al. (2016; *Diporotheca palynomorph*), holotype: WSP 48900, cultures and sequences are unavailable.

Dipyrgis Clem. 1909, *Ascomycota* genera *incertae sedis*, one species, type: data inadequate asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dirina Fr. 1825 (= *Dirinopsis* De Not. 1846 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 24 species, type: *D. ceratoniae* (Ach.) Fr., asexual morph unknown, lichenized, saxicolous and corticolous, worldwide (coastal regions of Mediterranean and subtropical climates), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tehler et al. (2013a; phylogeny and taxonomy), Lücking et al. (2017a; classification, but recording only 13 species), sequences are available.

Dirinaria (Tuck.) Clem. 1909 (= *Pyxine* sect. *Dirinaria* Tuck. 1877 *fide* Species Fungorum 2017), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 35 species, type: *D. picta* (Sw.) Clem. & Shear, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available for the type.

Dirinastrum Müll.Arg. 1893 (= *Dirinastromyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Caliciaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *D. australiense* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Bungartz et al. (2011; phylogeny), Lücking et al. (2017a; classification, treated as a genus in *Roccellaceae*), sequences are unavailable.

Diromma Ertz & Tehler 2014, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *D. dirinellum* (Nyl.) Ertz & Tehler, sexual morph with apothecioid ascomata, asexual morph unknown, lichenized, terrestrial, Mediterranean and Canary Islands, see Ertz et al. (2015c; morphology, phylogeny), Lücking et al. (2017a; classification), lectotype and ex-type strain of type: Dufour (H-NYL4756).

Discina (Fr.) Fr. 1849 (= *Discinella* P. Karst. 1891; = *Peziza* a Discina Fr. 1822 *fide* Species Fungorum 2017), *Discinaceae*, *Pezizales*, *Pezizomycetes*, 20 species, type: *D. perlata* (Fr.) Fr., asexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discinella Boud. 1885 (= *Pachydisca* Boud. 1885; *Geocoryne* Korf 1978 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, twelve species, type: *D. boudieri* (Quél.) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Disciotis Boud. 1885, *Morchellaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *D. venosa* (Pers.) Arnould, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Methven et al. (2013; DNA, phylogeny), Carris et al. (2016; mitosporic stage; DNA, phylogeny), cultures and sequences are available.

Discocainia J. Reid & A. Funk 1966, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, type: *D. treleasei* (Sacc.) J. Reid & A. Funk, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Li et al. (2014d; new species, Japan), cultures and sequences are available.

Discocolla Prill. & Delacr. 1894, *Ascomycota* genera *incertae sedis*, one species, type: *D. pyrina* Prill. & Delacr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, north temperate, see Seifert et al. (2011), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discocurtisia Nannf. 1983, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, twelve species, type: *D. arundinariae* (Berk. & M.A. Curtis) Nannf., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discogloeum Petr. 1923, *Ascomycota* genera *incertae sedis*, one species, type: *D. veronicarum* (Ces.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discomycella Höhn. 1912, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *D. tjibodensis* Höhn., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discomycetoidea Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *D. aequatorialis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Discopycnothyrium Hongsanan & K.D. Hyde 2016, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, one species, type: *D. palmae* Hongsanan & K.D. Hyde, coelomycetous, sexual morph unknown, sooty moulds, Thailand, see Hongsanan et al. (2016a; taxonomy), holotype: MFLU13-0485, cultures and sequences are available.

Discorehmia Kirschst. 1936, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *D. eburnea* Kirschst.,

asexual morph unknown, saprobes, terrestrial, North America, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discosia Lib. ex Durieu & Mont. 1849 (= *Adisciso* Kaz. Tanaka, Okane & Hosoya 2011; = *Cryptostictella* Grove 1912; = *Discosia* Lib. 1837; = *Discosiospora* A.W. Ramaley 1989; = *Leptina* Bat. & Peres 1960 *fide* Wijayawardene et al. 2016b; Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, c. 15 species, type: *D. strobilina* Lib., coelomycetous, sexual morphs unknown, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2012, 2016b, 2017; taxonomy, outline), Kirk et al. (2013; genus accepted), Li et al. (2015d; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2015; new species, phylogeny), Tangthirasunun et al. (2015; taxonomy), Jaklitsch et al. (2016a; phylogeny), cultures and sequences are available.

Discosiellina Subram. & K.R.C. Reddy 1972, *Ascomycota* genera *incertae sedis*, one species, type: *D. longiciliata* (Agnihothr.) Subram. & K.R.C. Reddy, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discosphaerina Höhn. 1917, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, eleven species, type: *D. discophora* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Discosporina Höhn. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *D. deplanata* (Höhn.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discotheciella Syd. & P. Syd. 1917 (= *Discothecium* Syd. & P. Syd. 1916 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. bakeri* (Syd. & P. Syd.) Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Discozythia Petr. 1922, *Ascomycota* genera *incertae sedis*, one species, type: *D. bakeri* (Syd. & P. Syd.) Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Disculoides Crous, Pascoe, I.J. Porter & Jacq. Edwards 2012, Erythrogloeaceae, Diaporthales, *Sordariomycetes*, two species, type: *D. eucalypti* Crous, Pascoe, I.J. Porter & Jacq. Edwards, coelomycetous, sexual morph unknown, pathogens, terrestrial, Australia, see Crous et al. (2012d, 2016a; morphology, new species, phylogeny), Maharachchikumbura et al. (2015b; classification, phylogeny), Crous et al. (2017; new species), holotype and ex-type: CBS H-20935, CPC 17650.

Dissitimurus E.G. Simmons, McGinnis & Rinaldi 1987, *Ascomycota* genera *incertae sedis*, one species, type: *D. exedrus* E.G. Simmons, McGinnis & Rinaldi, hyphomycetous, sexual morph unknown, on human, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dissoconium de Hoog, Oorschot & Hijwegen 1983, *Dissoconiaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *D. aciculare* de Hoog, Oorschot & Hijwegen, hyphomycetous, sexual morph mycosphaerella-like, saprobes, pathogens, terrestrial, worldwide, see Crous et al. (2009d; taxonomy, phylogeny), Seifert et al. (2011; morphology), Hyde et al. (2013; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c; outline, phylogeny), cultures and sequences are available.

Distocercospora N. Pons & B. Sutton 1988, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *D. pachyderma* (Syd. & P. Syd.) N. Pons & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, ?pathogens, terrestrial, South Africa, India, New Zealand, Philippines, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Verma and Rai (2014; morphology, new species), Braun et al. (2014b; morphology and typification), neotype S-F37683, epitype MUMH11476, duplicate: CBS H-21733; ex-epitype cultures: MUCC1716, CBS 138247.

Distolomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *D. fijianus* Thaxt., asexual morph unknown, parasites, terrestrial, Asia, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Distophragmia R.F. Castañeda, S.M. Leão & Gusmão & 2015, *Ascomycota* genera *incertae sedis*, one species, type: *D. rigidiuscula* (R.F. Castañeda) R.F. Castañeda, S.M. Leão & Gusmão, hyphomycetous, sexual morph unknown, saprobic, terrestrial, Brazil, Cuba, see Castañeda-Ruiz et al. (2015; taxonomy), Wijayawardene

et al. (2017; outline), cultures and sequences are unavailable.

Distopyrenis Aptroot 1991, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, eight species, type: *D. americana* Aptroot, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Distorimula F. San Martín, P. Lavínn & Esqueda 1999, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, two species, type: *D. mexicana* F. San Martín, P. Lavín & Esqueda, asexual morph unknown, saprobes, terrestrial, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: FSM, Esqueda 3693, cultures and sequences are unavailable.

Distoseptispora K.D. Hyde, McKenzie & Maharachch. 2016, *Distoseptisporaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, six species, type: *D. fluminicola* McKenzie, H.Y. Su, Z.L. Luo & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, aquatic, China, Thailand, see Hyde et al. (2016; new species), Doilom et al. (2017; species on *Tectona*), Su et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type: HKAS84006, MFLUCC 15–0417.

Distothelia Aptroot 2005, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, three species, type: *D. isthmospora* Aptroot, lichenized, see Lumbsch and Huhndorf (2010; outline), Aptroot and Lücking (2016; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Ditopella De Not. 1863, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *D. fusispora* De Not., asexual morph unknown, saprobes, terrestrial, Europe, see Mejía et al. (2008, 2011; DNA, phylogeny), Sogonov et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for *D. ditopa*.

Ditopellina J. Reid & C. Booth 1967, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *D. saccardoana* (Traverso & Spessa) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ditopellopsis J. Reid & C. Booth 1967, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *D. clethrae* J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, North America, see Mejía et al. (2008, 2011; DNA, phylogeny), Sogonov et al. (2008; DNA, transferred *Ditopellopsis racemula* (Cooke & Peck) M.E. Barr to *Gnomoniopsis*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for unidentified *Ditopellopsis* sp.

Diutina Khunnamw., Lertwatt., Jindam., Limtong & Lachance 2015, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, eight species, type: *D. rugosa* (Anderson) Khunnamwong, Jindamorakot, Limtong & Lachance, asexual reproduction by multilateral and pseudohyphae are produced, sexual reproduction unknown, saprophytic, but some species are common clinical isolates, rice leaf, bee, soil, soybean factory, clinical, worldwide, see Khunnamwong et al. (2015; taxonomy), sequences are available.

Diversimorbus S.F. Chen & Jol. Roux 2013, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *D. metrosideri* S.F. Chen bis & Jol. Roux, with coelomycetous asexual morph, saprobes, terrestrial, South Africa, have sequence data, see Chen et al. (2013b; morphology, phylogeny), Maharachchikumbura et al. (2015a, 2015b; outline), holotype and ex-type: PREM 60741, CMW37322.

Divinia Cif. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *D. diatricha* Cif., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Dominican Republic, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dixomyces I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *D. perpendicularis* (Thaxt.) I.I. Tav., asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dolabra C. Booth & W.P. Ting 1964, *Chaetothyriomycetidae* genera *incertae sedis*, *Eurotiomycetes*, one species, type: *D. nepheliae* C. Booth & W.P. Ting, asexual morph coelomycetous (*fide* Rossman et al. 2010), saprobes, pathogens, terrestrial, Malaysia, see Lumbsch and Huhndorf (2010; outline, as *Dothideomycetes*, genera *incertae sedis*), Rossman et al. (2010, 2012; *Eurotiomycetes* genera *incertae sedis*, DNA, phylogeny, asexual morph), Kirk et al. (2013; genus accepted), Thambugala et al. (2014b; taxonomy), cultures and sequences are available.

Dolichocarpus R. Sant. 1949, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *D. chilensis* R. Sant., asexual morph unknown, lichenized, saxicolous and epiphytic, Chile and Saint Helena, see Aptroot (2008; taxonomy), Ertz and Tehler (2011; phylogenetic position), Lumbsch and Huhndorf

(2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Doliomyces Steyaert 1961 (= *Bartaliniopsis* S.S. Singh 1974 [1972] *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *D. senegalensis* (Speg.) Steyaert, sexual morph unknown, saprobes, terrestrial, India, South America, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as in *Amphisphaeriaceae*), Wijayawardene et al. (2016b; placed in *Bartaliniaceae* (current name *Sporocadaceae*) based on morphology), cultures and sequences are unavailable.

Domingoella Petr. & Cif. 1932, *Ascomycota* genera *incertae sedis*, four species, type: *D. asterinarum* Petr. & Cif., hyphomycetous, sexual morph unknown, on fungi, terrestrial, Pantropical, Australasia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Donadinia Bellem. & Mel.-Howell 1990, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, four species, type: *D. helvelloides* (Donadini, Berthet & Astier) Bellem. & Mel.-Howell, sexual morph unknown, saprobes, terrestrial, Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Carbone et al. (2013, 2014; new species; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Doratomyces Corda 1829, *Microascaceae*, *Microascales*, *Sordariomycetes*, two species, type: *D. neesii* Corda, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Sandoval-Denis et al. (2016b; phylogeny), cultures and sequences are available.

Dothichiza Lib. ex Roum. 1880 (= *Microphoma* N.F. Buchw. 1958; = *Parasclerophoma* Petr. 1924; = *Tylophoma* Kleb. 1933 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, 15 species, type: *D. populea* Sacc. & Briard, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c; outline, accepted as *Dothioraceae*, and *Dothideomycetes*, genera *incertae sedis* respectively), Kirk et al. (2013; genus accepted), Gonzalez-Menendez et al. (2016; DNA), Hyde et al. (2013) and Thambugala et al. (2014a) excluded from *Dothioraceae*, cultures and sequences are available.

Dothidasteroma Höhn. 1909 (= *Melanoplaca* Syd. & P. Syd. 1917 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, five species, type: *D. pterygotae* (Berk. & Broome) Höhn., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Parmulariaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Parmulariaceae*), Hyde et al. (2013; review, keys, excluded from *Parmulariaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Parmulariaceae*), placement in *Parmulariaceae* supported by morphology, cultures and sequences are unavailable.

Dothidasteromella Höhn. 1910 (= *Balansina* G. Arnaud 1918 [1917]; = *Dothidasteris* Clem. & Shear 1931; = *Hysterostoma* Theiss. 1913 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *D. sepulta* (Berk. & M.A. Curtis) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hyde et al. (2013) did not accept as a genus in *Asterinaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Dothidea Fr. 1818 (= *Phragmodothis* Theiss. & Syd. 1914; = *Systremma* Theiss. & Syd. 1915 *fide* Species Fungorum 2017), *Dothideaceae*, *Dothideales*, *Dothideomycetes*, around 500 spp. (the actual number of species could be less than 20), type: *D. sambuci* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; morphology, phylogeny), Wijayawardene et al. (2014c; outline), ex-type strains of type: DAOM 231303, epitype of type: GZU 78–2002.

Dothidella Speg. 1880 (= *Pluriporus* F. Stevens & R.W. Ryan 1925; = *Polystomella* Speg. 1888 *fide* Species Fungorum 2017), *Polystomellaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *D. australis* Speg., sexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Dothideodiplodia Murashk. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *D. agropyri* Murashk., coelomycetous, sexual morph unknown, saprobes, terrestrial, USSR, see Wijayawardene et al. (2012, 2017; outline, morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dothideopsella Höhn. 1915, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. agminalis* (Sacc. & Morthier) Höhn., asexual morph unknown, saprobes, terrestrial, see Kirk et al. (2008; treated as a synonym of *Leptosphaeria*), Lumbsch and Huhndorf (2010; outline), Ariyawansa et al. (2013b; morphology), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Dothidotthia Höhn. 1918, *Dothidotthiaceae*, *Pleosporales*, *Dothideomycetes*, c. ten species, type: *D. symphoricarpi* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, temperate, see Phillips et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, phylogeny), epitype and ex-epitype: BPI 871823, CPC 12929 = CBS 119687.

Dothiopeltis E. Müll. 1957, *Leptopeltidaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *D. arunci* E. Müll., asexual morph idriella-like, saprobes, terrestrial, Switzerland, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Leptopeltidaceae*), Granmo and Mathiassen (2013; new species), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dothiora Fr. 1849 (= *Dothiora* subgen. Metadothis Sacc. 1889; = *Jaapia* Kirschst. 1938; =Keisslerina Petr. 1920 [1919]; = *Leptodothiora* Höhn. 1918; *Metadothis* (Sacc.) Sacc. 1892; = *Stigmea* Bonord. 1864 *fide* Species Fungorum 2017), *Dothideaceae*, *Dothideales*, *Dothideomycetes*, more than 50 species, type: *D. pyrenophora* (Fr.) Fr., asexual morph coelomycetous, hormonema-like synasexual morph, dothichiza or hormonema-*like*, saprobes or pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothioraceae*), Hyde et al. (2013; accepted as a genus in *Dothioraceae*), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a), Tibpromma et al. (2017b; phylogeny, asexual morph), cultures and sequences are available.

Dothiorella Sacc. 1880 (= *Botryophoma* (P. Karst.) Höhn. 1916; = *Phoma* subgen. *Botryophoma* P. Karst. 1884; = *Sclerodothiorella* Died. 1912 *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, 24 species, type: *D. pyrenophora* Sacc., holomorph, asexual morph coelomycetous, endophytes, pathogens, saprobes, associated with wide range of woody hosts, worldwide distribution, see Phillips et al. (2008, 2013; morphology, phylogeny), Liu et al. (2012a, b, phylogeny), Li et al. (2014c; new species), Dissanayake et al. (2016a; morphology, phylogeny), Crous et al. (2016b; new species, phylogeny), Wijayawardene et al. (2016b; morphology, phylogeny), Doilom et al. (2017; species in *Tectona*), holotype and culture ex-epitype: IMI 63581b, CBS 115038.

Dothioropsis Riedl 1974, *Ascomycota* genera *incertae sedis*, one species, type: *D. corni* Riedl, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dothistroma Hulbary 1941, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *D. pini* Hulbary, coelomycetous, sexual morph mycosphaerella-like, plant pathogens, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Braun et al. (2014b; morphology and typification), Barnes et al. (2016; neotypification of *Dothistroma septosporum* and epitypification of *D. pini*), epitype and ex-epitype: CBS H-12211, CMW 10951 = CBS 116487.

Dothivalsaria Petr. 1966, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. megalospora* (Auersw.) Petr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as genus in *Massariaceae*), Hyde et al. (2013; did not include as a genus in *Massariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are available.

Drechmeria W. Gams & H.-B. Jansson 1985 (= *Haptocillium* W. Gams & Zare *fide* Maharachchikumbura et al. 2015a, 2015b), *Ophiocordycipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *D. coniospora* (Drechsler) W. Gams & H.-B. Jansson, sexual morph unknown, parasitic, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Spatafora et al. (2015; new species), Zhang et al. (2016c; endoparasites of nematodes, DNA), cultures and sequences are available.

Drechslerella Subram. 1964 (= *Dactylariopsis* Mekht. 1967; = *Golovinia* Mekht. 1967; = *Orbiliaster* Dennis 1954 *fide* Baral et al. 2015), *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, two species, type: *D. acrochaeta* (Drechsler) Subram., sexual morph unknown, parasitic, terrestrial, worldwide, see Castillo et al. (2010; biocontrol), Kirk et al. (2013; genus accepted), Liu et al. (2014b; genomic studies), Baral et al. (2015; nomenclature), cultures and sequences are available.

Drepanomyces Thaxt. 1931, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *D. malayanus* Thaxt., asexual morph unknown, parasitic, terrestrial, Sumatra, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Drepanopeziza (Kleb.) Höhn. 1917 (= *Dirimosperma* Preuss 1855 [1853]; = *Drepanopeziza* (Kleb.) Höhn. 1917; = *Gloeosporium* Desm. & Mont. 1849; = *Gloeosporidiella* Petr. 1921; = *Microsphaeropsis* Höhn. 1917; = *Pseudopeziza* subgen. *Drepanopeziza* Kleb. 1906 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *D. ribis* (Rehm ex Kleb.) Höhn., asexual

morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Drudeola Kuntze 1891 (= *Macilvainea* Nieuwl. 1916; = *Peckia* Clinton 1878 [1876] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *D. sarraceniae* (Peck & Cooke) Kuntze, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Drumopama Subram. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *D. girisa* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, Cuba, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dryosphaera Jørgen Koch & E.B.G. Jones 1989, *Ascomycota* genera *incertae sedis*, three species, type: *D. navigans* Jørg. Koch & E.B.G. Jones, asexual morph unknown, on wood associated with sand, marine, temperate and tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), cultures and sequences are unavailable.

Dualomyces Matsush. 1987, *Ascomycota* genera *incertae sedis*, two species, type: *D. taiwanensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dubitatio Speg. 1882, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. dubitationum* Speg., asexual morph coelomycetous, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Massariaceae*), Hyde et al. (2013) excluded from *Massariaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Dubujiana D.R. Reynolds & G.S. Gilbert 2005, *Dothideomycetes* genera *incertae sedis*, one species, type: *D. glandulifera* D.R. Reynolds & G.S. Gilbert, asexual morph coelomycetous, saprobes, terrestrial, Australia, see Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Duebenia Fr. 1849 (= *Briardia* Sacc. 1885 *fide* Species Fungorum 2017), *Calloriaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *D. rufa* Fr., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dufourea Ach. 1809 (see Species Fungorum 2017 for synonyms), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 23 species, type: *D. flammea* (L. f.) Ach., lichenized, see Arup et al. (2013; taxonomy), Kondratyuk et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Dumontinia L.M. Kohn 1979, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *D. tuberosa* (Bull.) L.M. Kohn, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Duosporium K.S. Thind & Rawla 1961, *Ascomycota* genera *incertae sedis*, one species, type: *D. cyperi* K.S. Thind & Rawla, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, China, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Duplicaria Fuckel 1870, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *D. empetri* (Pers.) Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zou et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but type lacking DNA.

Duplicariella B. Erikss. 1970, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *D. phyllodoces* B. Erikss., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Lantz et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Duradens Samuels & Rogerson 1990, *Sordariomycetes* genera *incertae sedis*, one species type: *D. lignicola* Samuels & Rogerson, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Clypeosphaeriaceae*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, excluded from *Clypeosphaeriaceae* and placed in *Sordariomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Durandiella Seaver 1932 (= *Durandia* Rehm 1913 *fide* Species Fungorum 2017), *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, ten species, type: *D. fraxini* (Schwein.) Seaver, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Durella Tul. & C. Tul. 1865, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, ?five species, type: *D. compressa* (Pers.) Tul. & C. Tul., asexual morph ?coelomycetous, saprobes on wood or cones of *Pinus*, widespread in

temperate areas, see Kirk et al. (2013; genus not listed), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacking for the type species, holotype of type: PH0006280.

Durispora K.D. Hyde 1994, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *D. elaeidicola* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Malaysia, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Durotheca Læssøe, Srikitik., Luangsa-ard & M. Stadler 2013, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *D. depressa* Læssøe & Srikitikulchai, asexual morph nodulisporium-like, saprobes, terrestrial, Thailand, see Læssøe et al. (2013; morphology, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Li et al. (2016a; new species, DNA), holotype and ex-type: BBH 18222, BBC 23016.

Dussiella Pat. 1890 (= *Echinodothis* G.F. Atk. 1894 *fide* Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *D. tuberiformis* (Berk. & Ravenel) Pat., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Dwayabeeja Subram. 1958, *Ascomycota* genera *incertae sedis*, three species, type: *D. sundara* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dwayaloma Subram. 1957, *Ascomycota* genera *incertae sedis*, two species, type: *D. trina* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dwayalomella Brisson, Piroz. & Pauzé 1975, *Ascomycota* genera *incertae sedis*, one species, type: *D. vaccinii* Brisson, Piroz. & Pauzé, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dwibahubeeja N. Srivast., A.K. Srivast. & Kamal 1995, *Ascomycota* genera *incertae sedis*, one species, type: *D. indica* N. Srivast., A.K. Srivast. & Kamal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dwibeeja Subram. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *D. sundara* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dwiroopa Subram. & Muthumary 1986, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *D. ramya* Subram. & Muthumary, coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Dwiroopella Subram. & Muthumary 1986, *Ascomycota* genera *incertae sedis*, one species, type: *D. sundara* Subram. & Muthumary, coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Dyfrolomyces K.D. Hyde, K.L. Pang, Alias, Suetrong & E.B.G. Jones 2013, *Dyfrolomycetaceae* , *Dyfrolomycetales*, *Dothideomycetes*, four species, type: *D. tiomanensis* K.L. Pang, S.A. Alias, K.D. Hyde, Suetrong & E.B.G. Jones, asexual morph unknown, saprobes, on wood in aquatic or terrestrial environments, worldwide, see Hyde et al (2013; phylogeny, morphology, outline), Pang et al. (2013a; phylogeny, morphology), Shearer et al. (2014; review), Wijayawardene et al. (2014c; outline), Jones et al. (2015; classification, marine), Maharachchikumbura et al. (2016b; outline), holotype: MFLU 13-00063.

Dyplolabia A. Massal. 1854, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *D. afzelii* (Ach.) A. Massal., asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2012a; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kalb et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Dyrithiopsis L. Cai, Jeewon & K.D. Hyde 2003 (= *Monochaetiopsis* L. Cai et al. 2003 *fide* Maharachchikumbura et al. 2015b; Réblová et al. 2016c), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *D. lakefuxianensis* L. Cai, Jeewon & K.D. Hyde, asexual morph formerly known in *Monochaetiopsis*, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Bartaliniaceae*), Réblová et al. (2016c; nomenclature), Wijayawardene et al. (2012, 2017;

outline), holotype: HKU (M) 8280, cultures and sequences are available.

Dyrithium M.E. Barr 1994, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *D. lividum* (Fr.) M.E. Barr, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Dysrhynchis Clem. 1909 (= *Balladynella* Theiss. & Syd. 1918 [1917]; = *Ceratochaete* Syd. & P. Syd. 1917; = *Dimerosporiella* Höhn. 1909; = *Dimerosporina* Höhn. 1910; = *Henningsomyces* Sacc. & D. Sacc. 1905; = *Kusanotheca* Bat. & Cif. 1963; = *Neoballadyna* Boedijn 1961; = *Neohoehnelia* Theiss. & Syd. 1918 [1917]; = *Setella* Syd. & P. Syd. 1916 *fide* Species Fungorum 2017), *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, seven species, type: *D. pulchella* (Sacc.) Clem., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Perisporiopsidaceae*), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Ebollia Minter & Caine 1980, *Ascomycota* genera *incertae sedis*, one species, type: *E. valdiviensis* (Speg.) Minter & Caine, coelomycetous, sexual morph unknown, saprobes, terrestrial, Chile, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ebullia K.L. Pang 2015, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *E. octonae* (Kohlm.) K.L. Pang, asexual morph unknown, saprobes, marine, Brunei, Hawaiian Islands, India, Taiwan, sequence data available, see Chu et al. (2015), Maharachchikumbura et al. (2016b; outline), holotype: J.K. 4474a = 01271926, NYBG.

Echidnocymbium Brusse 1987, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *E. speciosum* Brusse, asexual morph coelomycetous, lichenized, saxicolous, South Africa, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Echidnodella Theiss. & Syd. 1918, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, 34 species, type: *E. linearis* (Syd. & P. Syd.) Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, no molecular data, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Hongsanan et al. (2014c; taxonomy), Wijayawardene et al. (2014c; outline), placement in *Asterinaceae* supported by morphology, cultures and sequences are unavailable.

Echidnodes Theiss. & Syd. 1918 (= *Lembosiodothis* Höhn. 1917; = *Maurodothella* G. Arnaud 1918 [1917] *fide* Species Fungorum 2017), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, c. 17 species, type: *E. liturae* (Cooke) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Echidnodes*), Hongsanan et al. (2014c; phylogeny), cultures and sequences are unavailable for type species.

Echinoascotheca Matsush. 1995, *Phaeotrichaceae*, *Phaeotrichales*, *Dothideomycetes*, one species, type: *E. duplooformis* Matsush., asexual morph unknown, saprobes, terrestrial, Pakistan, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; accepted as genus in *Phaeotrichaceae*), Hyde et al. (2013; accepted as genus in *Phaeotrichaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Echinobotryum Corda 1831, *Microascaceae*, *Microascales*, *Sordariomycetes*, one species, type: *E. atrum* Corda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Echinocatena R. Campb. & B. Sutton 1977, *Ascomycota* genera *incertae sedis*, one species, type: *E. arthrinioides* R. Campb. & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: IMI 199279, cultures and sequences are unavailable.

Echinochondrium Samson & Aa 1975, *Ascomycota* genera *incertae sedis*, one species, type: *E. pulchrum* Samson & Aa, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Echinoconidiophorum Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, one species, type: *E. cerradense* Pereira-Carv. & Dianese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Echinodiscus Etayo & Diederich 2000, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *E. lesdainii* (Vouaux) Etayo & Diederich, asexual morph unknown, lichenicolous, non-lichenized, Eurasia, see

Zhurbenko (2009; morphology, new species), Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable but lacking for the type species.

Echinomyces Rappaz 1987, *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *E. obesa* (Syd.) Rappaz, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Echinoplaca Fée 1825 (= *Arthotheliopsidomyces* Cif. & Tomas. 1953; = *Phallomyces* Bat. & Valle 1961; = *Pycnodermellina* Bat. & H. Maia 1957; = *Sporocybomyces* H. Maia 1967 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, c. 40 species, type: *E. epiphylla* Fée, asexual morph unknown, lichenized, widespread (tropical), foliicolous (but a few species are corticolous), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Echinosphaeria A.N. Mill. & Huhndorf 2004, *Helminthosphaeriaceae*, *Sordariomycetidae*, families *incertae sedis*, *Sordariomycetes*, seven species, type: *E. canescens* (Pers.) A.N. Mill. & Huhndorf, asexual morph unknown, saprobes, terrestrial, worldwide, see Bell and Mahoney (2008, 2008; new species), Declercq (2009; new species), Dhargalkar and Bhat (2009; new species), Bell (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miller et al. (2014; new species, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for type: SMH4666, TL5730.

Echinula Graddon 1977, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *E. asteriadiformis* Graddon, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Echria (N. Lundq.) Kruys, Huhndorf & A.N. Mill. 2015 (= *Arnium* sect. Echria N. Lundq. 1972 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *E. macrotheca* (P. Crouan & H. Crouan) Kruys, Huhndorf & A.N. Mill., saprobes, marine, USA, see Kruys et al. (2015; phylogeny), cultures and sequences are available.

Ecteinomyces Thaxt. 1903, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *E. trichopterophilus* Thaxt., asexual morph unknown, parasites, terrestrial, America, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2014b; the Netherlands), cultures and sequences are unavailable.

Ectendomeliola Hosag. & D.K. Agarwal 2006, *Ascomycota* genera *incertae sedis*, two species, type: *E. walsurae* Hosag. & D.K. Agarwal, asexual morph produced from the hyphae, on living leaves, terrestrial, worldwide, see Hosagoudar and Archana (2010a; new species, India), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae*), holotype: HCIO 45237, cultures and sequences are unavailable.

Edenia M.C. González, Anaya, Glenn, Saucedo & Hanlin 2007, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *E. gomezpompae* M.C. González, Anaya, Glenn, Saucedo & Hanlin, asexual morph unknown, endophytes, human pathogens, terrestrial, Pakistan, Quintana Roo, see Crous et al. (2009a; DNA, phylogeny), Hyde et al. (2013; outline, accepted as a genus in *Pleosporaceae*), Cui et al. (2013; DNA, human pathogens), Sun et al. (2013; new species, endophytic), Wijayawardene et al. (2014c; outline, accepted as a genus in *Pleosporaceae*), Ariyawansa et al. (2015c; phylogeny, excluded from *Pleosporaceae* and placed in *Phaeosphaeriaceae*), Pili et al. (2015; endophytes, Kenya, DNA), Keilor Rojas-Jimenez et al. (2016; endophytes, DNA, Costa Rica), holotype: MEXU 25346, cultures and sequences are available.

Edrudia W.P. Jord. 1980, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *E. constipans* (Nyl.) W.P. Jord., asexual morph unknown, lichenized, saxicolous, California, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Edwardiella Henssen 1986, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *E. mirabilis* Henssen, asexual morph unknown, lichenized, saxicolous, Marion Island, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Effetia Bartoli, Maggi & Persiani 1984, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *E. craspedoconidica* Bartoli, Maggi & Persiani, asexual morph virgariella-like, from soil, terrestrial, Ivory Coast, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: horto botanico Roma105S, cultures and sequences are unavailable.

Eiglera Hafellner 1984, *Eigleraceae*, *Acarosporales*, *Lecanoromycetes*, two species, type: *E. flavida* (Hepp) Hafellner, asexual morph unknown, lichenized, saxicolous, Europe, North America, see Lumbsch and Huhndorf (2010; accepted as a genus in *Hymeneliaceae*, *Pertusariales*), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; the phylogenetic placement of *Eiglera* outside of the

Hymeneliaceae, sister to *Acarosporaceae*, needs to be confirmed, which would justify the reinstitution of the family *Eigleraceae* belonging to the *Acarosporales*), Lücking et al. (2017a; classification), sequences are available.

Eilifdahlia S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2014, *Teloschistaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *E. dahlii* (Elix, S.Y. Kondr. & Kärnefelt) S.Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, A.S. Kondr. & Hur, asexual morph unknown, lichenized, epiphytic, Australia, South Africa, see Kondratyuk et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Eiona Kohlm. 1968, *Ascomycota* genera *incertae sedis*, asexual morph unknown, one species, type: *E. tunicata* Kohlm., on wood often associated with sand, temperate, no sequence data, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), cultures and sequences are unavailable.

Elachopeltella Bat. & Cavalc. 1964, *Ascomycota* genera *incertae sedis*, two species, type: *E. sapindacearum* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Elaeodema Syd. 1922, *Ascomycota* genera *incertae sedis*, two species, type: *E. cinnamomi* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Elaphomyces Nees 1820 (= *Ascoscleroderma* Clémencet 1932; = *Ceratogaster* Corda 1841; = *Ceraunium* Wallr. 1833; = *Hypogaeum* Pers. 1794; = *Lycoperdastrum* Haller ex Kuntze 1891; = *Phymatium* Chevall. 1826 *fide* Species Fungorum 2017), *Elaphomycetaceae*, *Elaphomycetales*, *Eurotiomycetes*, apparently polyphyletic, c. 78 species, type: *E. granulatus* Fr., terrestrial, hypogeous, forming mycorrhizas with conifers and broad-leaved trees, cosmopolitan, see Zhang and Minter (2011; new species), Castellano et al. (2011, 2012a, b, 2016; new species, phylogeny), Paz et al. (2012; new species), Buyck et al. (2016; phylogeny), cultures and sequences are available.

Elasticomyces Zucconi & Selbmann 2008, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *E. elasticus* Zucconi & Selbmann, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Antarctica, see Selbmann et al. (2008; morphology, phylogeny), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), holotype and ex-type: CBS H-20177, CBS 122538, cultures and sequences are available.

Elattopycnis Bat. & Cavalc. 1964, *Ascomycota* genera *incertae sedis*, one species, type: *E. protii* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Elenkiniana S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2014, *Teloschistaceae, Lecanorales*, *Lecanoromycetes*, three species, type: *E. gloriae* (Llimona & Werner) S. Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, A. S. Kondratiuk et J.-S. Hur., asexual morph unknown, lichenized, saxicolous, Eurasia, see Kondratyuk et al. (2014; taxonomy), sequences are available.

Eleutherascus Arx 1971, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *E. lectardii* (Nicot) Arx, asexual morph unknown, saprobes, terrestrial, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available for type: CBS 626.71.

Eleutheromycella Höhn. 1908 (= *Eleutheris* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, one species, type: *E. mycophila* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eleutheromyces Fuckel 1870, *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, one species, type: *E. subulatus* (Tode) Fuckel, coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014a; DNA, phylogeny), epitype and ex-epitype: CBS H-12355, CBS113.86.

Elixia Lumbsch 1997, *Elixiaceae*, *Umbilicariales*, *Lecanoromycetes*, two species; type: *E. flexella* (Ach.) Lumbsch, lichenized, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; taxonomy), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available, type specimen UPS-ACH-L-1286 (syntype).

Elletevera Deighton 1969, *Ascomycota* genera *incertae sedis*, one species, type: *E. parasitica* (Ellis & Everh.) Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Elliottinia L.M. Kohn 1979, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *E. kerneri* (Wettst.) L.M. Kohn, asexual morph unknown, saprobes, terrestrial,

Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures available for the type: KL402, specimen voucher TU:104529.

Ellisembia Subram. 1992, *Sordariomycetes* genera *incertae sedis*, c. 61 species, type: *E. coronata* (Fuckel) Subram., sexual reported for *E. adscendens* (Berk.) Subram., saprobes, lichenicolous (e.g. *E. lichenicola*), terrestrial, aquatic, worldwide, see Ma et al. (2008, 2010b; new species), McKenzie (2010; new species), Seifert et al. (2011; phylogeny), Delgado (2013; new species), Rajeshkumar et al. (2013; new species), Ren et al. (2013c; new species), Xia et al. (2015b; new species), Santa Izabel et al. (2013; new combinations), Su et al. (2016b; treated as synonym of *Sporidesmium*), cultures and sequences are available for few species (not from type material), but lacking for the type.

Ellisembiopsis T.S. Santa Izabel & Gusmão 2013, *Ascomycota* genera *incertae sedis*, two species, type: *E. brasiliensis* T.S. Santa Izabel & Gusmão, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, China, see Santa Izabel et al. (2013; morphology), holotype of the type: HUEFS 155102, cultures and sequences are unavailable.

Elmerinula Syd. 1934, *Dothideomycetes* genera *incertae sedis*, one species, type: *E. capnoides* Syd., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Elongatopedicellata J.F. Zhang, J.K. Liu, K.D. Hyde & Z.Y. Liu 2015, *Roussoellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *E. lignicola* J.F. Zhang, J.K. Liu, K.D. Hyde & Z.Y. Liu, asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type: MFLU 15-2717, MFLUCC 15-0642.

Elotespora R.F. Castañeda & Heredia 2010, *Ascomycota* genera *incertae sedis*, one species, type: *E. mexicana* R.F. Castaneda & Heredia, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Mexico, see Castañeda-Ruiz et al. (2010b; morphology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: XAL CB883, cultures and sequences are unavailable, compare with *Artocarpomyces*, *Colemaniella* and *Glomerobolus*.

Elsinoë Racib. 1900 (= *Sphaceloma* de Bary 1874 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b; see Species Fungorum 2017 for additional synonyms), *Elsinoaceae*, *Myriangiales*, *Dothideomycetes*, c. 30 species (known by cultures), type: *E. canavaliae* Racib., asexual morph coelomycetous (*Sphaceloma*), pathogens, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Chung (2011; pathogens), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Jayawardena et al. (2014; re-visit), Wijayawardene et al. (2014c; outline, nomenclature), Rossman et al. (2015b, 2016a; nomenclature, new combinations), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available.

Elytroderma Darker 1932, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *E. deformans* (Weir) Darker, asexual morph unknown, endophytes, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available for unidentified species.

Emarcea Duong, Jeewon & K.D. Hyde 2004, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *E. castanopsidicola* Duong, Jeewon & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, Taiwan, see Li et al. (2009b; new species, Taiwan), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Crous et al. (2015d; new species; DNA), Maharachchikumbura et al. (2015b, 2016b; outline), isotype: MRC DLA 008, HKUM 17498, CMU H224410, PDD 78748, ex-type: CBS and HKUCC 10344.

Emblemospora Jeng & J.C. Krug 1976, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *E. monotrema* Jeng & J.C. Krug, asexual morph unknown, from soil, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Embryonispora G.Z. Zhao 2014, *Ascomycota* genera *incertae sedis*, one species, type: *E. bambusicola* G.Z. Zhao, hyphomycetous, sexual morph unknown, saprobes, terrestrial, China, see Zhao et al. (2014a; taxonomy), cultures and sequences are unavailable.

Emericellopsis J.F.H. Beyma 1940 (= *Peyronellula* Malan 1952; = *Saturnomyces* Cain 1956 *fide* Species Fungorum 2017), *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, twelve species, type: *E. terricola* J.F.H. Beyma, asexual morph hyphomycetous, endophytes, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Grum-Grzhimaylo et al. (2013b; new species), Kirk et al. (2013; genus accepted), Hyde et al. (2016; new species, hyphomycetous asexual morph), sequences are available.

Emilmuelleria Arx 1986, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *E. spirotricha* (R.K. Benj.) Arx, asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Emodomelanelia Divakar & A. Crespo 2010, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *E. masonii* (Essl. & Poelt) Divakar & A. Crespo, asexual morph unknown, lichenized, saxicolous, Asian endemic (mainland China, India, Nepal and Taiwan), see Crespo et al. (2010a; phylogeny and taxonomy), Lücking et al. (2017a; classification), sequences are available.

Enantioptera Descals 1983, *Ascomycota* genera *incertae sedis*, two species, type: *E. tetra-alata* Descals, hyphomycetous, sexual morph unknown, in river foam, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Enarthromyces Thaxt. 1896, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *E. indicus* Thaxt., asexual morph unknown, parasites, saprobes, terrestrial, Asia, Africa, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Encephalographa A. Massal. 1854, *Melaspileaceae*, *Eremithallales*, *Dothideomycetes*, one species, type: *E. cerebrina* (DC.) A. Massal., asexual morph unknown, lichenized, saxicolous, Europe (southern), see Lumbsch and Huhndorf (2010; outline, doubtful position in *Arthoniomycetes*), Kirk et al. (2013; genus accepted), Ertz and Diederich (2015; phylogenetic position), Lücking et al. (2017a; classification), sequences and cultures are available; the placement of all species but *E. elisae* in *Encephalographa* should be reassessed.

Enchnoa Fr. 1849 (= *Massalongiella* Speg. 1880 *fide* Species Fungorum 2017), *Calosphaeriales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *E. lanata* (Fr.) Fr., asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Nitschkiaceae*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Calosphaeriales* genera, *incertae sedis*), cultures and sequences are unavailable.

Enchylium (Ach.) Gray 1821 (see Species Fungorum 2017 for synonyms), *Collemataceae*, *Peltigerales*, *Lecanoromycetidae*, *Lecanoromycetes*, nine species, type: need typification, lichenized, see Otálora et al. (2013, 2014; taxonomy, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Encoelia (Fr.) P. Karst. 1871 (= *Cenangella* subgen. *Phaeangella* Sacc. 1889; = *Peziza* trib. Encoelia Fr. 1822; = *Phaeangella* (Sacc.) Massee 1895; = *Phibalis* Wallr. 1833 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, 40 species, type: *E. furfuracea* (Roth) P. Karst., asexual morph unknown, endophytes, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; morphology, ultrastructure, DNA, phylogeny), cultures and sequences are available.

Encoeliopsis Nannf. 1932 (= *Neogodronia* Schläpf.-Bernh. 1969 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *E. rhododendri* (Ces. ex Rabenh.) Nannf., asexual morph unknown, endophytes, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Helotiaceae*), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), cultures available for type: KL118.

Endobotrya Berk. & M.A. Curtis 1874, *Ascomycota* genera *incertae sedis*, one species, type: *E. elegans* Berk. & M.A. Curtis, coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline, morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endobotryella Höhn. 1909, *Ascomycota* genera *incertae sedis*, one species, type: *E. oblonga* (Fuckel) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endocalyx Berk. & Broome 1876, *Apiosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *E. thwaitesii* Berk. & Broome, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Capdet and Romero (2010; Argentina), Seifert et al. (2011; morphology), Wijayawardene et al. (2012; outline, accepted as *Ascomycota* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Endocarpon Hedw. 1788 (= *Dermatocarpon* W. Mann 1825; = *Endopyreniomyces* E.A. Thomas 1939; = *Leightonia* Trevis. 1853; = *Paracarpidium* Müll. Arg. 1883; = *Pyrenothamnia* Tuck. 1883; = *Pyrenothamniomyces* Cif. & Tomas. 1953; = *Rhodocarpon* Lönnr. 1858 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, c. 70 species, type: *E. pusillum* Hedw., asexual morph coelomycetous, terrestrial and aquatic (maritime and freshwater), lichenized, occurring on rocks, soil and bark, cosmopolitan, see Gueidan et al. (2009; phylogeny, outline), Prieto et al. (2012; phylogeny), Joshi and Hur (2013a, b; new species), Lücking et al. (2017a; classification), sequences are available.

Endocena Cromb. 1876, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type:

E. informis Cromb., asexual morph unknown, lichenized, terricolous, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Endococcus Nyl. 1855 (= *Discothecium* Zopf 1897; = *Pseudoendococcus* Marchand 1896; = *Sorothelia* Körb. 1865 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, 34 species, type: *E. rugulosus* (Borrer ex Leight.) Nyl., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; outline, genus accepted), Kocourková and Knudsen (2011; new species), Zhurbenko et al. (2012; new species), Jayasiri et al. (2016a; re-visited), a culture and sequence is available.

Endocolium Syd. 1937, *Ascomycota* genera *incertae sedis*, one species, type: *E. costaricanum* Syd., asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endoconidioma Tsuneda, Hambl. & Currah 2004, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, one species, type: *E. populi* Tsuneda, Hambl. & Currah, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Endoconidiophora Münch 1907, *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, one species, type: *E. coerulescens* Münch, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012; outline, accepted as *Ascomycota* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Endoconospora Gjaerum 1971, *Ascomycota* genera *incertae sedis*, two species, type: *E. cerastii* Gjaerum, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Norway, India, see Wijayawardene et al. (2012; outline, accepted as *Ascomycota* genera *incertae sedis*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endocoryneum Petr. 1922, ?*Didymellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *E. loculosum* (Sacc.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Norway, India, see Wijayawardene et al. (2012, 2016b; outline, accepted as *Ascomycota* genera *incertae sedis* and *Didymellaceae* respectively), Kirk et al. (2013; genus accepted), cultures and sequences are available for *E. festucae* Wijaya. et al. (MFLUCC 14–0461).

Endodothiora Petr. 1929, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, one species, type: *E. sydowiana* Petr., asexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Endogenospora R.F. Castañeda, O. Morillo & Minter 2010, *Ascomycota* genera *incertae sedis*, one species, type: *E. aspectabilis* R.F. Castañeda, O. Morillo & Minter, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Venezuela, see Castañeda-Ruiz et al., (2010b; morphology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype: INIFAT C09/74, cultures and sequences are unavailable, compare with *Ascoconidium, Sporoschisma* and *Sporoschismopsis.*

Endohyalina Marbach 2000, *Physciaceae*, *Lecanorales*, Lecanoromycetidae, type: *E. rappii* (Imshaug ex R.C. Harris) Marbach, ten species, three varieties, asexual morph unknown, lichenized, terrestrial, corticolous, lignicolous, sometimes obligately lichenicolous, Australia, tropical to subtropical, see Giralt et al. (2010; taxonomy, Elix and Kantvilas (2015; new records, new taxa), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Endomelanconiopsis E.I. Rojas & Samuels 2008, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, two species, type: *E. endophytica* E.I. Rojas & Samuels, coelomycetous, saprobes, terrestrial, South America, see Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; taxonomy, new species, phylogeny), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Endomelanconium Petr. 1940, *Ascomycota* genera *incertae sedis*, four species, type: *E. pini* (Corda) Petr., coelomycetous, sexual morph unknown, endophytes, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2016b, 2017; morphology; outline), cultures and sequences are unavailable.

Endomeliola S. Hughes & Piroz. 1994, *Meliolaceae*, *Meliolales*, *Sordariomycetes*, one species, type: *E. dingleyae* S. Hughes & Piroz., asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: DAOM 167533, cultures and sequences are available for PDD:98304 (unpublished).

Endomyces Reess 1870, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, four species, type: *E. decipiens* (Tul. & C. Tul.) Reess, asexual reproduction is by pseudohyphae or septate hyphae or blastoconidia, parasite of mushrooms, grow on various mushrooms,

worldwide, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Endophoma Tsuneda & M.L. Davey 2011, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *E. elongata* Tsuneda & M.L. Davey, coelomycetous, sexual morph unknown, saprobes (soil of bat cave), terrestrial, Canada, see Tsuneda et al. (2011a; taxonomy, DNA, phylogeny), Chen et al. (2015b; phoma-like taxa in *Didymellaceae*), holotype and ex-type: UAMH 11216.

Endophragmiella B. Sutton 1973, *Helminthosphaeriaceae*, *Sordariales*, *Sordariomycetes*, c. 70 species, type: *E. pallescens* B. Sutton, hyphomycetous, Manitoba, see Seifert et al. (2011; morphology), Ma et al. (2012c; new species), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Endophragmiopsis M.B. Ellis 1966, *Ascomycota* genera *incertae sedis*, one species, type: *E. pirozynskii* M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endoplacodium Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *E. nigrescens* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Iran, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endoramularia Petr. 1923 (= *Endocladis* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *E. ulmi* Petr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Endoscypha Syd. 1924, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *E. perforans* Syd., asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available PDD:102231 (unpublished).

Endosporoideus W.H. Ho, Yanna, K.D. Hyde & Goh 2005, *Ascomycota* genera *incertae sedis*, one species, type: *E. pedicellatus* W.H. Ho, Yanna, K.D. Hyde & Goh, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Hong Kong, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures and sequences are unavailable.

Endostilbum Malençon 1964, *Ascomycota* genera *incertae sedis*, one species, type: *E. cerasi* (Bourdot & Galzin) Malençon, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Morocco, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures and sequences are unavailable.

Endothia Fr. 1849 (= *Calopactis* Syd. & P. Syd. *fide* Rossman et al. 2015a), *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *E. gyrosa* (Schwein.) Fr., asexual morphs unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2015a; nomenclature), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Endotryblidium Petr. 1959, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *E. insculptum* (Cooke) Petr., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are unavailable.

Endoxyla Fuckel 1871 (= *Eutypopsis* P. Karst. 1878; = *Lentomitella* Höhn. 1906 [1905]; = *Linostomella* Petr. 1925 *fide* Species Fungorum 2017), *Boliniaceae*, *Boliniales*, *Sordariomycetes*, ten species, type: *E. operculata* (Nitschke) Sacc., asexual morphs unknown, saprobes, terrestrial, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Untereiner et al. (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Endoxylina Romell 1892 (= *Pogonospora* Petr. 1957 [1956] *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, seven species, type: *E. stellulata* Romell, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Vasilyeva (2010; new species; Russia), Kirk et al. (2013; genus accepted), Untereiner et al. (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Endozythia Petr. 1959, *Ascomycota* genera *incertae sedis*, one species, type: *E. moravica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, former Yugoslavia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Enerthidium Syd. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *E. canarii* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Wijayawardene et al. (2012, 2017; outline, morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Engelhardtiella A. Funk 1973, *Ascomycota* genera *incertae sedis*, one species, type: *E. alba* A. Funk, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Englerodothis Theiss. & Syd. 1915 (= *Dothophaeis* Clem. 1931 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, three species, type: *E. kilimandscharica* (Henn.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Parmulariaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Parmulariaceae*), Hyde et al. (2013; review, keys, excluded from *Parmulariaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, *genera incertae sedis*), cultures and sequences unavailable.

Engleromyces Henn. 1900 (≡ *Stromne* Clem. 1909; = *Cerillum* Clem. 1931; *Colletomanginia* Har. & Pat. 1906 *fide* Species Fungorum 2017; Wendt et al. 2017, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *E. goetzei* Henn., asexual morph unknown, saprobes, terrestrial, Africa, Asia, see Lumbsch and Huhndorf (2010; outline), Whalley et al. (2010; new species. China), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Englerula Henn. 1904 (= *Anatexis* Syd. 1928 *fide* Species Fungorum 2017), *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *E. macarangae* Henn., asexual morph coelomycetous, saprobes, epiphytic, terrestrial, Africa, India, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Englerulaceae*), Dai et al. (2014c; morphology), cultures and sequences are unavailable.

Engyodontium de Hoog 1978, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *E. parvisporum* (Petch) de Hoog, hyphomycetous, sexual morph unknown, saprobes, on insects and spiders, cosmopolitan, see Seifert et al. (2011; morphology), Jaklitsch et al. (2016a; classification), Maharachchikumbura et al. (2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Enigmotrema Lücking 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *E. rubrum* Lücking, lichenized, see Sipman et al. (2012; taxonomy), Lücking et al. (2013, 2016b; phylogeny, classification), Lücking (2014; taxonomy), sequences are available.

Enridescalsia R.F. Castañeda & Guarro 1998, *Ascomycota* genera *incertae sedis*, one species, type: *E. speciosa* R.F. Castañeda & Guarro, hyphomycetous, sexual morph unknown, saprobes, aquatic (fresh water), Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: INIFAT C95/96, cultures and sequences are unavailable, compare with *Xylomyces* and *Gonatobotrys*.

Enterocarpus Locq.-Lin. 1977, *Microascaceae*, *Microascales*, *Sordariomycetes*, two species, type: *E. uniporus* Locq.-Lin., asexual morph unknown, coprophilous, terrestrial, Sahara, Italy, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Enterodictyon Müll. Arg. 1892 (= *Enterodictyonomyces* Cif. & Tomas. 1953; = *Enterodictyum* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *E. indicum* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Enterographa Fée 1824 (= *Arthonaria* Fr. 1825; = *Chiodectonomyces* Cif. & Tomas. 1953; = *Platygramma* Leight. 1854; = *Stigmatidium* G. Mey. 1825 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, ±60 species, type: *E. crassa* (DC.) Fée, sexual morph with punctiform or rounded to lirelliform ascomata, lichenized, rarely lichenicolous, terrestrial, world-wide with a preference for (sub)tropical regions, see Ertz and Tehler (2011; phylogeny), Lumbsch and Huhndorf (2010; outline), Aptroot et al. (2013a; new species), Kirk et al. (2013; genus accepted), Ertz et al. (2015c, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Enthallopycnidium F. Stevens 1925, *Ascomycota* genera *incertae sedis*, one species, type: *E. gouldiae* F. Stevens, coelomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Entoderma Hanula, Andreadis & M. Blackw. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *E. colletosporium* Hanula, Andreadis & M. Blackw., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Entodesmium Riess 1854, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, eight species, type: *E. rude* Riess, sexual morph unknown, saprobes, terrestrial, temperate, see Schoch et al. (2009; DNA,

phylogeny), Hyde et al. (2013; outline, accepted as a genus in *Phaeosphaeriaceae*), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*, phylogeny), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015a; new species, Russia, DNA, phylogeny), Tibpromma et al. (2017b; new species), cultures available for the type: CBS 650.86.

Entoleuca Syd. 1922, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *E. callimorpha* Syd., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Entonaema Möller 1901, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, six species, type: *E. liquescens* Möller, asexual morph unknown, terrestrial, saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available.

Eoaleurina Korf & W.Y. Zhuang 1986, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *E. foliicola* (Henn.) Korf & W.Y. Zhuang, asexual morph unknown, saprobes, terrestrial, Central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eopyrenula R.C. Harris 1973, *Ascomycota* genera *incertae sedis*, three species, type: *E. leucoplaca* (Wallr.) R.C. Harris, sexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; outline, accepted as a genus in *Dacampiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Dacampiaceae*), cultures and sequences are unavailable.

Eosphaeria Höhn. 1917 (= *Herminia* R. Hilber 1979 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *E. uliginosa* (Kunze) Höhn., asexual morph hyphomycetous, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Eoterfezia G.F. Atk. 1902, *Eoterfeziaceae*, *Ascomycota* families *incertae sedis*, type: *E. parasitica* G.F. Atk., six species, asexual morph unknown, terrestrial, saprobes, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epaphroconidia Calat. & V. Atienza 1995, *Ascomycota* genera *incertae sedis*, one species, type: *E. hawksworthii* Calat. & V. Atienza, coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Spain, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ephebe Fr. 1825 (= *Ephebeia* Nyl. 1875; = *Ephebomyces* Cif. & Tomas. 1953; = *Spilonematopsis* Å.E. Dahl 1950 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetidae*, 13 species, type: *E. lanata* (L.) Vain., asexual morph unknown, lichenized, terrestrial, corticolous, see Lumbsch and Huhndorf (2010; outline). Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Ephelidium C.W. Dodge & E.D. Rudolph 1955, *Ascomycota* genera *incertae sedis*, one species, type: *E. heardense* C.W. Dodge & E.D. Rudolph, coelomycetous, sexual morph unknown, saprobes, terrestrial, Antarctica, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epibelonium E. Müll. 1963, *Saccardiaceae*, *Ascomycota* families *incertae sedis*, one species, type: *E. gaeumannii* E. Müll., asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epibryon Döbbeler 1978, *Epibryaceae*, *Chaetothyriales*, *Eurotiomycetes*, c. 30 species, type: *E. plagiochilae* (Gonz. Frag.) Döbbeler, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; DNA, symbioses), Hyde et al. (2013; outline, accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Gueidan et al. (2014a; phylogeny), cultures and sequences are available.

Epichloë (Fr.) Tul. & C. Tul. 1865 (= *Cordyceps* subgen. Epichloë Fr. = *Neotyphodium* Glenn, C.W. Bacon & Hanlin 1996 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *E. typhina* (Pers.) Tul. & C. Tul., sexual morph unknown, saprobes, endophytes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Young et al. (2014; endophytes), Hettiarachchige et al. (2015; endophytes), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Epicladonia D. Hawksw. 1981, *Leotiomycetes* genera *incertae sedis*, four species, type: *E. sandstedei* (Zopf) D. Hawksw., on lichens, sexual morph unknown, see Kirk et al. (2013; genus accepted), Pino-Bodas et al. (2017; new

species, phylogeny), cultures and sequences are unavailable, topotype material of type: B (Krypt. Exs. Vindob. No. 1330b).

Epiclinium Fr. 1849, *Ascomycota* genera *incertae sedis*, two species, type: *E. pezizoideum* (Schwein.) Fr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epicoccospora Budathoki & S.K. Singh 1995, *Ascomycota* genera *incertae sedis*, two species, type: *E. nepalensis* Budathoki & S.K. Singh, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Nepal, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epicoccum Link 1816 (= *Cerebella* Ces. 1851; = *Clathrococcum* Höhn. 1911; = *Malacharia* Fée 1843; = *Paratrichaegum* Faurel & Schotter 1966 [1965]; = *Thyrococcum* R.E. Buchanan 1911 *fide* Species Fungorum 2017), *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. ten species, type: *E. nigrum* Link, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Aveskamp et al. (2010, 2010; DNA, new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c; outline, accepted as a genus in *Didymellaceae*), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), Chen et al. (2015b; taxonomy, new species, DNA, phylogeny), Thambugala et al. 2017b, new species, phylogeny), ex-type cultures available for type: CBS 173.73.

Epicoleosporium Videira & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *E. ramularioides* Videira, H.D. Shin & Crous, hyphomycetous, sexual morph unknown, plant pathogenic, see Videira et al. (2016; morphology, phylogeny), holotype KUS-F19603, isotype CBS H-22542, culture ex-type: CBS 141103 = CPC 10672.

Epicrea Petr. 1950, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *E. insignis* Petr., asexual morph unknown, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Epidermophyton Sabour. 1907 (= *Epidermomyces* Loeffler 1983 *fide* Species Fungorum 2017), *Arthrodermataceae*, *Onygenales*, *Eurotiomycetes*, one species: *E. floccosum* (Harz) Langeron & Miloch., hyphomycetous, terrestrial, on human skin, one of the main etiological agents of dermatophytosis worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), neotype strain of the type: =CBS 230.76, sequences are available from de Hoog et al. (2017).

Epigloea Zukal 1889 (= *Epigloeomyces* Cif. & Tomas. 1957; = *Vorarlbergia* Grummann 1969 *fide* Species Fungorum 2017), *Epigloeaceae*, *Ascomycota* families *incertae sedis*, 13 species, type: *E. bactrospora* Zukal, on algae, Europe, Antarctica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epilichen Clem. 1909, *Rhizocarpaceae*, *Rhizocarpales*, *Lecanoromycetes*, three species; type: *E. scabrosus* (Ach.) Clem., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable, type specimen UPS-ACH-L-130 (isotype),

Epinephroma Zhurb. 2012, *Ascomycota* genera *incertae sedis*, two species, type: *E. kamchatica* Zhurb. & Stepanch., coelomycetous, lichenicolous, terrestrial, Russia, see Zhurbenko et al. (2012; morphology), cultures and sequences are unavailable.

Epiphloea Trevis 1880 (= *Amphidium* Nyl. 1876 [1877]; = *Latzelia* Zahlbr. 1926 *fide* Species Fungorum 2017), *Heppiaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *E. terrena* (Nyl.) Trevis., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline). Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Episclerotium L.M. Kohn 1984, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *E. sclerotiorum* (Rostr.) L.M. Kohn, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Episphaerella Petr. 1924, *Pseudoperisporiaceae*, *Dothideomycetes*, families *incertae sedis*, six species, type: *E. manihotis* (Henn.) Petr., asexual morph unknown, saprobes, terrestrial, USA, Africa, China, see Lumbsch and Huhndorf (2010; outline), Zhao and Zhao (2012; new species, China), Hyde et al. (2013; outline, accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Pseudoperisporiaceae*), cultures and sequences are available for *Episphaerella dodonaeae* PDD:104466 (unpublished).

Episporogoniella U. Braun 1994, *Ascomycota* genera *incertae sedis*, one species, type: *E. muscigena* (Speg.) U. Braun, hyphomycetous, sexual morph unknown, terrestrial, muscicolous, South America, see Seifert et al. (2011), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: LPS 12764, cultures and sequences are unavailable.

Epistigme Syd. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *E. nidulans* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Epithamnolia Zhurb. 2012, *Ascomycota* genera *incertae sedis*, one species, type: *E. karatyginii* Zhurb., sexual morph unknown, lichenicolous, terrestrial, Canada, see Zhurbenko (2011; morphology), cultures and sequences are unavailable.

Epithyrium (Sacc.) Trotter 1931 (= *Biatoridina* Schczedr. 1964; = *Coniothyrium* subgen. Epithyrium Sacc. 1892 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *E. resinae* (Sacc. & Berl.) Trotter, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology), Kirk et al. (2013; did not list), cultures and sequences are unavailable.

Equiseticola Abdelsalam, Tibpromma, Wanas. & K.D. Hyde 2016, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *E. fusispora* Abdelsalam, Tibpromma, Wanasinghe & K.D. Hyde, asexual morph unknown, saprobes, Italy, see Abd-Elsalam et al. (2016; taxonomy), holotype: MFLU 14-0702, cultures and sequences are available.

Eremascus Eidam 1877, *Eremascaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *E. albus* Eidam, asexual morph absent in the type species, but hyphomycetous in *E. terrestris* Asthana & Mahmud (Asthana & Mahmud 1944), terrestrial, saprobes, usually xerophilic, occurring on substrates with low water and high carbohydrate content, such as dried fruits, honey, jams, mustard and others, also reported from soil, Argentina, Australia, India, Western Europe, see Gueidan et al. (2008; phylogeny), Pitt and Hocking (2009; morphology, food spoilage), Wynns (2015; phylogeny, proposal of a segregate genus), material of the type species is lost and neotypification is necessary.

Eremastrella S. Vogel 1955, *Lecideaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *E. tobleri* S. Vogel, asexual morph unknown, lichenized, terrestrial, see Ekman and Blaalid (2011; molecular sequence), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017b: classification), sequences are available.

Eremiomyces Trappe & Kagan-Zur 2005, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *E. echinulatus* (Trappe & Marasas) Trappe & Kagan-Zur, asexual morph unknown, saprobes, from soil, terrestrial, South Africa, Spain, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Pezizaceae*), Alvarado et al. (2011b; new species, Spain, DNA, placed in *Tuberaceae*), cultures and sequences are available.

Eremomyces Malloch & Cain 1971 (= *Pithoascina* Valmaseda, A.T. Martínez & Barrasa 1987 *fide* Species Fungorum 2017), *Eremomycetaceae*, *Dothideomycetes* genera *incertae sedis*, two species, type: *E. bilateralis* Malloch & Cain, asexual morph hyphomycetous, saprobes, terrestrial, North America, Netherlands, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for type.

Eremothecella Syd. & P. Syd. 1917 (= *Nematidia* Stirt. 1879 [1878] *fide* Species Fungorum 2017), *Arthoniaceae*, *Arthoniales*, *Arthoniomycetidae*, type: *E. calamicola* Syd. & P. Syd., eleven species, asexual morph unknown, lichenized, terrestrial, mainly tropical, see Lumbsch and Huhndorf (2010; outline). Kirk et al. (2013; genus accepted), Cáceres and Aptroot (2014; taxonomy), Lücking et al. (2017a; classification), molecular and culture data unavailable.

Eremothecium Borzi emend. Kurtzman 1995 (= *Ashbya* Guillierm. 1928; = *Crebrothecium* Routien 1949; = *Spermophthora* S.F. Ashby & W. Nowell 1926 *fide* Species Fungorum 2017), *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, six species, type: *E. cymbalariae* Borzí, asexual reproduction is by budding cells are absent or present, and when present, budding is multilateral on a narrow base, enteroarthric conidia are infrequently produced by one species, pseudohyphae and true hyphae are generally present, plant pathogens, cotton, hazel nuts, tomatoes, mustard, insects, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Erikssonia Penz. & Sacc. 1898 (= *Paidania* Racib. 1909; = *Periaster* Theiss. & Syd. 1917 [1916]; = *Rinia* Penz. & Sacc. 1902 [1901] *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, five species, type: *E. pulchella* Penz. & Sacc., sexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Erikssonopsis M. Morelet 1971 (= *Grovesiella* B. Erikss. 1970 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *E. ericae* (Fr.) M. Morelet, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Erinacellus T. Sprib., Muggia & Tønsberg 2014, *Peltigerales* genera *incertae sedis*, *Lecanoromycetes*, two species, type: *E. dendroides* (Henssen) T. Sprib., Tønsberg & Muggia, lichenized, see Spribille et al. (2014b;

taxonomy), Lücking et al. (2017a; classification), sequences are available.

Eriocercospora Deighton 1969, *Dothideomycetes* genera *incertae sedis*, two species, type: *E. balladynae* (Hansf.) Deighton, hyphomycetous, sexual morph unknown, saprobes, mycoparasites, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eriocercosporella Rak. Kumar, A.N. Rai & Kamal ex U. Braun 1998, *Ascomycota* genera *incertae sedis*, one species, type: *E. indica* Rak. Kumar, A.N. Rai & Kamal ex U. Braun, hyphomycetous, sexual morph unknown, terrestrial, foliicolous, plant pathogenic, Asia, see Seifert et al. (2011), Wijayawardene et al. (2012, 2014c; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: K(M) IMI 302747.

Erioderma Feé 1825 (= *Malmella* C.W. Dodge 1933 *fide* Species Fungorum 2017), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 40 species, type: *E. polycarpum* Fée, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Eriomycopsis Speg. 1911, *Ascomycota* genera *incertae sedis*, 13 species, type: *E. bomplandi* Speg., hyphomycetous, sexual morph unknown, fungicolous, terrestrial, worldwide, see Seifert et al. (2011), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eriopezia (Sacc.) Rehm 1892 (= *Tapesia* subgen. Eriopezia Sacc. 1889; = *Tapesiella* Velen. 1939 *fide* Species Fungorum 2017), *Arachnopezizaceae*, *Helotiales*, *Leotiomycetes*, 30 species, type: *E. caesia* (Pers.) Rehm, asexual morph unknown, saprobes, terrestrial, Europe, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Erioscyphella Kirschst. 1938, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, c. ten species, type: *E. longispora* (P. Karst.) Kirschst, sexual morph unknown, saprobes, cosmopolitan, see Kirk et al. (2013; treated as a synonym of *Lachnum* Retz.), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Eriosphaeria Sacc. 1875 (= *Cantharosphaeria* Thaxt. 1920; = *Eriosphaerella* Höhn. 1906; = *Malacosphaeria* Syd. 1924; = *Penzigina* Kuntze 1891 *fide* Species Fungorum 2017), *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, six species, type: *E. vermicularia* (Nees) Sacc., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Eriospora Berk. & Broome 1850, *Ascomycota* genera *incertae sedis*, one species, type: *E. leucostoma* Berk. & Broome, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, South America, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Eriosporella Höhn. 1916 (= *Pseuderiospora* Keissl. 1924 *fide* Species Fungorum 2017), *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *E. calami* (Niessl) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Thailand, see Wijayawardene et al. (2012, 2014c; outline), Kirk et al. (2013; genus accepted), Dai et al. (2014e; new species, DNA, phylogeny), cultures and sequences are available for *E. bambusicola* D.Q. Dai et al. (ex-type MFLUCC 11-0436).

Eriosporopsis Petr. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *E. albida* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eriothyrium Speg. 1887, *Ascomycota* genera *incertae sedis*, one species, type: *E. dubiosum* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Erispora Pat. 1922, *Ascomycota* genera *incertae sedis*, one species, type: *E. parasitica* Pat., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, holotype is lost.

Ernakulamia Subram. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *E. cochinensis* (Subram.) Subram, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South East Asia, see Capdet and Romero (2010; Argentina), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Erysiphe R. Hedw. ex DC. 1805: Fr. 1829 emend. Braun & Takamatsu 2000 (see Species Fungorum 2017 for synonyms), *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, 378 species in *Erysiphe* and 72 species in *Pseudoidium*, type: *E. polygoni* DC., hyphomycetous asexual morphs, biotrophic, obligate plant pathogens, terrestrial, worldwide, see Braun and Cook (2012; taxonomy), Takamatsu et al. (2015a, b; phylogeny), lectotype of type: G 00122108.

Erythrocarpon Zukal 1886, *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, six species, type:

E. microstomum Zukal, asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Erythrodecton G. Thor 1991, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *E. granulatum* (Mont.) G. Thor, lichenized, see Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011, phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Erythrogloeum Petr. 1953, *Erythrogloeaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *E. hymenaeae* Gonz. Frag. & Cif. ex Petr., coelomycetous, sexual morph unknown, biotrophic, terrestrial, Costa Rica, South and Central America, see Crous et al. (2012d; DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: CBS H-20937, CPC 18819 = CBS 132185.

Erythromada Huhndorf, A.N. Mill., F.A. Fernández & Lodge 2005, *Chaetosphaeriales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *E. lanciospora* Huhndorf, A.N. Mill., F.A. Fernández & Lodge, asexual morphs unknown, saprobes, terrestrial, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Eschatogonia Trevis. 1853, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, seven species; type: *E. montagnei* Trevis., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), isotype of the type: UPS-L-129880, sequences are unavailable.

Escovopsioides H.C. Evans & J.O. Augustin 2012, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *E. nivea* H.C. Evans & J.O. Augustin, asexual morph hyphomycetous, on nest of leaf-cutting ants, terrestrial, Brazil, see Augustin et al. (2012; morphology, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype IMI 501181; isotype DOA627-VIC 31754, cultures and sequences are available.

Escovopsis J.J. Muchovej & Della Lucia 1990 (= *Phialocladus* Kreisel 1972 *fide* Species Fungorum 2017), *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *E. weberi* J.J. Muchovej & Della Lucia, hyphomycetous, sexual morph unknown, on nest of attine ants, terrestrial, worldwide, see Augustin et al. (2012; morphology, DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Masiulionis et al. (2015; new species), Meirelles et al. (2015; new species), cultures and sequences are available.

Esdipatilia Phadke 1981, *Ascomycota* genera *incertae sedis*, one species, type: *E. indica* Phadke, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: AMH4616, cultures and sequences are unavailable.

Esfandiariomyces Ershad 1985 (= *Esfandiaria* Petr. 1955 *fide* Species Fungorum 2017), *Sordariomycetes*, genera *incertae sedis*, one species, type: *E. insignis* (Petr.) Ershad, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Esslingeriana Hale & M.J. Lai 1980, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *E. idahoensis* (Essl.) Hale & M.J. Lai, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Esteya J.Y. Liou, J.Y. Shih & Tzean 1999, *Ascomycota* genera *incertae sedis*, one species, type: *E. vermicola* J.Y. Liou, J.Y. Shih & Tzean, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Taiwan, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Etayoa Diederich & Ertz 2014, *Phaeococcomycetaceae*, *Lichenostigmatales*, *Arthoniomycetes*, one species, type: *E. trypethelii* (Flakus & Kukwa) Diederich & Ertz, both sexual and asexual morphs stromatic, lichenicolous, non-lichenized, on corticolous lichens, worldwide, see Ertz et al. (2014b; morphology, phylogeny), cultures and sequences are available.

Etheirophora Kohlm. & Volkm.-Kohlm. 1989, *Etheirophoraceae*, *Torpedosporales*, *Sordariomycetes*, three species, type: *E. bijubata* Kohlm. & Volkm.-Kohlm., saprobes, marine, Atlantic Ocean, Pacific Ocean, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for type.

Euacanthe Theiss. 1917, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, two species, type: *E. usambarensis* (Rehm) Theiss., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; DNA), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for *E. foveolata* (GKM1221 *fide* Mugambi and Huhndorf 2010), treated as a

synonym of *Acanthonitschkea* Speg. in Species Fungorum (2017).

Euantennaria Speg. 1918 (= *Aithalomyces* Woron. 1926; = *Ophiocapnodium* Speg. 1918; = *Phaeocapnias* Cif. & Bat. 1963; = *Skoteinospora* Bat. 1962 *fide* Species Fungorum 2017), *Euantennariaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *E. tropicicola* Speg., saprobes, parasitic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Eubelonis Höhn. 1926, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *E. albosanguinea* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eucalyptostroma Crous & M.J. Wingf. 2016, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *E. eucalypti* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: CBS H-22871, CPC 28764.

Eucantharomyces Thaxt. 1895, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 26 species, type: *E. atrani* Thaxt., asexual morph unknown, parasites, saprobes, terrestrial, worldwide, see Rossi and Ponziani (2008; new species), Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Eucasphaeria Crous 2007, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *E. capensis* Crous, asexual morph coelomycetous, saprobes, terrestrial, South Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Azeem et al. (2015; DNA), Crous et al. (2016a; new species, phylogeny), holotype and the ex-type strains of the type: CBS-H19764, CPC 12796 = CBS 120028.

Euceramia Bat. & Cif. 1962, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *E. palmicola* Bat. & Cif., asexual morph unknown, epiphytic, epiphyllous, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Euceratomyces Thaxt. 1931, *Euceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *E. terrestris* Thaxt., asexual morph unknown, parasites, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species), cultures and sequences are unavailable.

Eudarluca Speg. 1908 (= *Cryptocrea* Petr. 1937; = *Parabotryon* Syd. 1926; = *Xenodimerium* Petr. 1947 *fide* Species Fungorum 2017), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, c. five species, type: *E. australis* Speg., asexual morph unknown, hyperparasitic associated with rust species (but not necessarily parasitic), terrestrial, worldwide, all species have sequence data, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; phylogeny), Wijayawardene et al. (2014c; outline), isotype of the type: S-F11420, cultures and sequences are available.

Eudimeriolum Speg. 1912 (= *Astiothyrium* Bat. 1964; = *Ontostheca* Bat. 1963 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, eight species, type: *E. elegans* Speg., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Euepixylon Füisting 1867 (= *Fuckelia* (Nitschke ex Sacc.) Cooke 1869 *fide* Species Fungorum 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *E. udum* (Pers.) Læssøe & Spooner, asexual morph unknown, saprobes, terrestrial, Europe, Eastern Russia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Eugeniella Lücking, Sérus. & Kalb 2008, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, nine species, type: *E. psychotriae* (Müll. Arg.) Lücking, Sérus. & Kalb, lichenized, see Lücking (2008; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Euhaplomyces Thaxt. 1901, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *E. ancyrophori* Thaxt., asexual morph unknown, parasites, saprobes, terrestrial, worldwide, see Rossi and Ponziani (2008; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Eumela Syd. 1925, *Pseudoperisporiaceae*, *Dothideomycetes*, families *incertae sedis*, one species, type: *E. chiococcae* Syd., asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Eumonoicomyces Thaxt. 1901, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two or three species, type: *E. californicus* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Rossi and

Ponziani (2008; new species), Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Euopsis Nyl. 1875, *Harpidiaceae*, *Lichinales*, *Lichinomycetes*, two species, type: *E. granatina* (Sommerf.) Nyl., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017b; classification), sequences are available.

Eupelte Syd. 1924 (= *Maurodothina* G. Arnaud ex Piroz. & Shoemaker 1970; = *Pirozynskia* Subram. 1972 *fide* Rossman et al. 2016a), *Dothideomycetes* genera *incertae sedis*, four species, type: *E. amicta* Syd., asexual morph (=sporidesmium-like, *fide* Sivanesan 1984), epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, treated as a doubtful genus in *Asterinales*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, *genera incertae sedis*), Rossman et al. (2016a; nomenclature), holotype of type: IMI 240625, cultures and sequences are unavailable.

Eupenidiella Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *E. venezuelensis* (Crous & U. Braun) Quaedvl. & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Venezuela, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; nomenclature), holotype, ex-type strain of the type: CBS H-19934, CBS 106.75.

Euphoriomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 14 species, type: *E. bilateralis* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Rossi and Ponziani (2008; new species), Lumbsch and Huhndorf (2010; outline), Lee and Na (2011; new species), cultures and sequences are unavailable.

Eupropolella Höhn. 1917, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *E. vaccinii* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Euryachora Fuckel 1870 (= *Discomycopsis* Müll. Arg. 1893 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *E. sedi* (Link) Fuckel, asexual morph placosphaeria-like, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Eurytheca De Seynes 1878, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *E. monspeliensis* De Seynes, asexual morph unknown, saprobes, terrestrial, Trinidad, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Dissanayake et al. (2014; morphology), Wijayawardene et al. (2014c; outline), holotype of the type: F11411.

Eusynaptomyces Thaxt. 1931, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, five species, type: *E. borealis* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Rossi and Carolina Proaño Castro (2009; compare with *Rhachomyces*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Euteratosphaeria Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *E. verrucosiafricana* (Crous & M.J. Wingf.) Quaedvl. & Crous, asexual morph unknown, pathogens, terrestrial, Indonesia, have sequence data, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype of the type: CBS H-19705, ex-type strain of type: CBS 118496.

Eutiarosporella Crous 2015, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, seven species, type: *E. tritici* (B. Sutton & Marasas) Crous, coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, cosmopolitan, see Crous et al. (2015b; taxonomy, phylogeny), Thynne et al. (2015; new species, pathogens), Li et al. (2016a; new species, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: PREM 60866, CMW 38423.

Eutypa Tul. & C. Tul. 1863, *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, c. 35 epithets, type: *E. lata* (Pers.) Tul. & C. Tul., asexual morph coelomycetous, saprobes, pathogenic, terrestrial, widely distribute, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; morphology, phylogeny, new species), Dai et al. (2017; morphology, phylogeny), Almeida et al. (2016; new species), cultures and sequence are available, but lacking for type material, need generic revision.

Eutypella (Nitschke) Sacc. 1875 (= *Peroneutypella* Berl. 1902; = *Pseudotrype* Henn. 1900; = *Scoptria* Nitschke 1867; = *Tilakomyces* Sathe & Vaidya 1979; = *Valsa* subgen. *Eutypella* Nitschke 1870 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *E. cerviculata* (Fr.) Sacc., asexual morph unknown, saprobes, pathology, terrestrial, worldwide, see Carmarán et al. (2009; Argentina), Lumbsch and Huhndorf (2010; outline), Trouillas et al. (2010, 2011; new species, Australia), Fournier and Lechat (2011; new species), Isaka et al. (2011; endophytes, active compounds), Chacón et al. (2013; Panama, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b;

outline), Almeida et al. (2016; new species, Brazil), Thambugala et al. (2017a, phylogeny, new species), cultures and sequences are available.

Euzodiomyces Thaxt. 1900, *Euceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *E. lathrobii* Thaxt., asexual morph unknown, parasites, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Evanidomus Caball. 1941, *Ascomycota* genera *incertae sedis*, one species, type: *E. valentinus* Caball., coelomycetous, sexual morph unknown, saprobes, terrestrial, Spain, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Everhartia Sacc. & Ellis 1882, *Ascomycota* genera *incertae sedis*, three species, type: *E. hymenuloides* Sacc. & Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Evernia Ach. 1809 (= *Everniomyces* Cif. & Tomas. 1953; = *Hologymnia* Nyl. 1900 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, ten species, type: *E. prunastri* (L.) Ach., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Everniicola D. Hawksw. 1982, *Ascomycota* genera *incertae sedis*, one species, type: *E. flexispora* D. Hawksw., coelomycetous, sexual morph unknown, on lichens, terrestrial, Europe and North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype material of type: E.

Everniopsis Nyl. 1860 (= *Hendrickxia* P.A. Duvign. 1942 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species; type: *E. trulla* (Ach.) Nyl., lichenized, Central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Eversia J.L. Crane & Schokn. 1977, *Ascomycota* genera *incertae sedis*, one species, type: *E. subopaca* (Cooke & Ellis) J.L. Crane & Schokn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Evlachovaea B.A. Borisov & Tarasov 1999, *Ascomycota* genera *incertae sedis*, one species, type: *E. kintrischica* B.A. Borisov & Tarasov, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Russia, see Wijayawardene et al. (2012, 2017; outline), Humber et al. (2013; DNA), Kirk et al. (2013; genus accepted), Tibpromma et al. (2017b; new species), cultures and sequences are unavailable.

Exarmidium P. Karst. 1873 (= *Clypeothecium* Petr. 1922; = *Trematostoma* (Sacc.) Shear 1942; = *Zignoëlla* subgen. Trematostoma Sacc. 1883 *fide* Species Fungorum 2017), *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, nine species, type: *E. hysteriiforme* P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Excipularia Sacc. 1884, *Ascomycota* genera *incertae sedis*, two species, type: *E. fusispora* (Berk. & Broome) Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Russia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Excipulariopsis P.M. Kirk & Spooner 1982 (= *Kentingia* Sivan. & W.H. Hsieh 1989 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Dothideomycetes*, genera *incertae sedis*, two species, type: *E. narsapurensis* (Subram.) Spooner & P.M. Kirk, hyphomycetous, sexual morph formerly known in *Kentingia*, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline; sexual morph), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline, nomenclature), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), cultures and sequences are unavailable.

Exiliseptum R.C. Harris 1986, *Dothideomycetes*, genera *incertae sedis*, two species, type: *E. ocellatum* (Müll. Arg.) R.C. Harris, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Trypetheliaceae*), Hyde et al. (2013; excluded from *Trypetheliaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Exochalara W. Gams & Hol.-Jech. 1976, *Leotiomycetes* genera *incertae sedis*, two species, type: *E. longissima* (Grove) W. Gams & Hol.-Jech., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, Europe, see Réblová et al. (2011; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available: CBS 393.82 and CBS 980.73.

Exophiala J.W. Carmich. 1966 (= *Foxia* Castell. 1908; = *Melanchlenus* Calandron 1953; = *Wangiella* McGinnis 1977 *fide* Species Fungorum 2017), *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, polyphyletic, (the core of

the genus belongs in *Herpotrichiellaceae*, but some species are related to other families of *Chaetothyriales*, such as *Chaetothyriaceae* and *Trichomeriaceae*), c. 41 species, type: *E. salmonis* J.W. Carmich., predominantly terrestrial, although some species occur in freshwater or sea environments, mostly saprobes associated with soil and plant material, but also occurring as endophytes or as opportunistic pathogens in a wide spectrum of animal hosts, including humans, certain species are common in harsh habitats such as rock surfaces or areas contaminated with aromatic hydrocarbons, cosmopolitan, see Zeng and de Hoog (2008; diagnostics of selected species), Crous and Groenewald (2011; new species), Gueidan et al. (2008, 2014a; phylogeny), de Hoog et al. (2011; DNA), Seyedmousavi et al. (2013; pathogenicity to various animals), Zupančič et al. (2016; species in indoor environments), Isola et al. (2013, 2016; species associated with polluted habitats and rock surfaces), Maciá-Vicente et al. (2016; new endophytic species), Madrid et al. (2016; phylogeny, some species from soil and river sediments). ex-type: CBS 157.67.

Exophoma Weedon 1926, *Ascomycota* genera *incertae sedis*, one species, type: *E. magnoliae* Weedon, coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Sutton (1977; nomenclature), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Tibpromma et al. (2017b; new species), cultures and sequences are unavailable.

Exormatostoma Gray 1821, *Diaporthales* genera incertae sedis, Sordariomycetes, type: E. nebulosa (Pers.) Gray, see Kirk et al. (2008; treated as nom. dub.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Exosporella Höhn. 1912, *Ascomycota* genera *incertae sedis*, one species, type: *E. symploci* Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Java, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures and sequences are unavailable.

Exosporiella P. Karst. 1892 (= *Anomalemma* Sivan. 1983; = *Phanerocorynella* Höhn. 1923 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b; Species Fungorum 2017), *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *E. fungorum* (Fr.) P. Karst., sexual morph *Anomalemma* Sivan., saprobes or fungicolous, terrestrial, commonly occur on *Corticium* species in Europe, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012, 2014c, 2016a, b, c; outline, nomenclature), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), Tian et al. (2015; morphology; nomenclature, phylogeny), cultures and sequences are unavailable for both sexual and asexual morphs.

Exosporium Link 1809 (= *Cephaloedium* Kunze 1828; = *Cuspidosporium* Cif. 1955 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *E. tiliae* Link, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Java, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures and sequences are unavailable.

Exosporodiella Ganie, Azam & A.H. Wani 2012, *Ascomycota* genera *incertae sedis*, one species, type: *Exosporodiella phoenicis* Ganie, Azam & A.H. Wani, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Ganie et al. (2012; morphology), holotype of the type: HCIO 50058, cultures and sequences are unavailable.

Exserohilum K.J. Leonard & Suggs 1974 (= *Setosphaeria* K.J. Leonard & Suggs 1974 *fide* Wijayawardene et al. 2014c), *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, c. 30 species, type: *E. turcicum* (Pass.) K.J. Leonard & Suggs, hyphomycetous, sexual morph *Setosphaeria*, on grasses, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline, nomenclature), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2015c; phylogeny), Rossman et al. (2015b; nomenclature), cultures and sequences are available.

Exserticlava S. Hughes 1978, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, seven species, type: *E. vasiformis* (Matsush.) S. Hughes, hyphomycetous, sexual morph chaetosphaeria-like, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Extrawettsteinina M.E. Barr 1972, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *E. minuta* M.E. Barr, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted as a genus in *Pleosporaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015c; morphology, taxonomy), cultures and sequences are unavailable.

Extremus Quaedvl. & Crous 2014, *Extremaceae*, *Capnodiales*, *Dothideomycetes*, *hyphomycetous*, two species, sexual morph unknown, rock-inhabiting, terrestrial, Antarctica, Spain, have sequence data, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), holotype of the type: CBS 118292, ex-type strain of type: CBS 118292.

Extrusothecium Matsush. 1996, *Dothideomycetes* genera *incertae sedis*, one species, type: *E. caffrum* Matsush., asexual morph unknown, saprobes, terrestrial, see Kirk et al. (2008; treated as a synonym of *Leptosphaerulina*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Fabrella Kirschst. 1941, *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *F. tsugae* (Farl.) Kirschst., asexual morph unknown, saprobes, pathogens, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Fairmaniella Petr. & Syd. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *F. leprosa* (Fairm.) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2016b; outline, morphology, taxonomic notes), Kirk et al. (2013; genus accepted), holotype of the type: IMI 57994, cultures and sequences are unavailable.

Falciformispora K.D. Hyde 1992, *Trematosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *F. lignatilis* K.D. Hyde, asexual morph unknown, saprobes on mangrove wood or pathogenic on human, Mexico, Senegal, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted as a genus in *Trematosphaeriaceae*), Kirk et al. (2013; genus accepted), Ahmed et al. (2014a; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), holotype of type species BRIP 16972, cultures and sequences are available.

Falcocladium S.F. Silveira, Alfenas, Crous & M.J. Wingf. 1994, *Falcocladiaceae*, *Falcocladiales*, *Sordariomycetes*, four species, type: *F. multivesiculatum* S.F. Silveira, Alfenas, Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see da Cruz and Gusmão (2009; diversity), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Jones et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: PREM 51541, cultures and sequences are available.

Fanniomyces T. Majewski 1972, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *F. ceratophorus* (Whisler) T. Majewski, asexual morph unknown, parasites, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Fantasmomyces DongHyeon Lee, Marinc., Z.W. de Beer & M.J. Wingf. 2016, *Sordariomycetes* genera *incertae sedis*, one species, type: *F. hyalinus* DongHyeon Lee, Marinc., Z.W. de Beer & M.J. Wingf., asexual morph hyphomycetous, saprobes, terrestrial, South Africa, see Crous et al. (2016a; taxonomy, phylogeny), holotype and ex-type of the type: PREM 61340, CBS 139038.

Farasanispora Abdel-Wahab, Bahkali & E.B.G. Jones 2016, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *F. avicenniae* Abdel-Wahab, Bahkali & E.B.G. Jones, asexual morph unknown, saprobes, marine, Saudi Arabia, see Li et al. (2016a; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22559, MF 1207.

Farnoldia Hertel 1983, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, six species, type: *F. jurana* (Schaer.) Hertel, lichenized, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Farriolla Norman 1884 (= *Farriollomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *F. distans* Norman, asexual morph unknown, saprobes, terrestrial, Norway, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Farrowia D. Hawksw. 1975, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *F. longicollis* (Krzemien. & Badura) D. Hawksw., asexual morph botyrotrichum-like, on cellulosic substrata, Europe, Asia and North America, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, lectotype of type: BPI-A 1212.

Fasciatispora K.D. Hyde 1991, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, eight species, type: *F. nypae* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; designate reference specimen and deposited cultures), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), reference specimen and available cultures for type: MFLU 15-0042, MFLUCC 11-0382.

Fassia Dennis 1964, *Sordariomycetes* genera *incertae sedis*, eight species, type: *F. scabrosa* Dennis, asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Sordariomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Faurelina Locq.-Lin. 1975, *Chadefaudiellaceae*, *Microascales*, *Sordariomycetes*, four species, type: *F. fimigena* Locq.-Lin., asexual morph arthrographis-like,

coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Réblová et al. (2011; DNA), Rossman et al. (2012; DNA), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available *F. indica* (CBS 301.78), *F. elongata*.

Fauriea S.Y. Kondr., L. Lőkös & J.-S. Hur 2016, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *F. orientochinensis* S.Y. Kondr., X.Y. Wang & Hur, lichenized, see Kondratyuk et al. (2016b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Favostroma B. Sutton & E.M. Davison 1983, *Ascomycota* genera *incertae sedis*, one species, type: *F. crypticum* B. Sutton & E.M. Davison, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 266341, cultures and sequences are unavailable, genus need revision.

Felipes Frisch & G. Thor 2014, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *F. leucopellaeus* (Ach.) Frisch & G. Thor, lichenized, see Frisch et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Felisbertia Viégas 1944, *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *F. melastomacearum* (Speg.) Viégas, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Fellhanera Vězda 1986 (= *Lobaca* Vězda 1983 *fide* Species Fungorum 2017), *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 97 species, type: *F. fuscatula* (Müll. Arg.) Vězda, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2013b; new species), Lücking et al. (2017a; classification), sequences are available.

Fellhaneropsis Sérus. & Coppins 1996, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, seven species, type: *F. myrtillicola* (Erichsen) Sérus. & Coppins, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Feltgeniomyces Dieder. 1990, *Ascomycota* genera *incertae sedis*, five species, type: *F. luxemburgensis* Dieder., hyphomycetous, lichenicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: Diederich 8477 (LG: holotype; IMI 335016, UPS, herb. Diederich: isotypes), cultures and sequences are unavailable.

Fenestella Tul. & C. Tul. 1863, *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, c. four species, type: *F. princeps* Tul. & C. Tul., asexual morph unknown, saprobes or biotrophic or hemibiotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Fenestellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Phookamsak and Hyde (2015; taxonomy), Wanasinghe et al. (2017b; new species, phylogeny, placement), cultures and sequences are available.

Fenestroconidia Calatayud & Etayo 1999, *Ascomycota* genera *incertae sedis*, one species, type: *F. caloplacae* Calat. & Etayo, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Spain, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: VAB (lich.) 15301, cultures and sequences are unavailable.

Ferrarisia Sacc. 1919 (= *Microthyriolum* Speg. 1919 [1918] *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, ten species, type: *F. philippina* Sacc., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), placement in *Parmulariaceae* is supported by morphology, cultures and sequences are unavailable.

Ferraroa Lücking, Sérus. & Vězda 2005, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *F. hyalina* (Lücking) Lücking, Sérus. & Vězda, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Fibrillithecis Frisch 2006, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 16 species, type: *F. vernicosa* (Zahlbr.) Frisch, asexual morph unknown, lichenized fungi, terrestrial, tropical, placement in *Graphidaceae* supported by molecular data, see Rivas Plata et al. (2010a, 2012a; key, taxonomy), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Filariomyces Shanor 1952 (= *Labiduromyces* Ishik. 1941 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *F. forficulae* Shanor, asexual morph unknown, parasites, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Filicupula Y.J. Yao & Spooner 1996, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *F. suboperculata* (Döbbeler & P. James) Y.J. Yao & Spooner, asexual morph unknown, parasites, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk

et al. (2013; genus accepted), cultures and sequences are unavailable.

Filiella Videira & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *F. pastinacae* (P. Karst.) Videira & Crous, hyphomycetous, sexual morph unknown, plant pathogenic, see Videira et al. (2016; morphology, phylogeny), cultures and sequences are available, neotype is in HAL.

Filosporella Nawawi 1976 (= *Coeloanguillospora* Dyko & B. Sutton 1978 [1977]; = *Rogersia* Shearer & J.L. Crane 1976 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *F. aquatica* Nawawi, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Baschien et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Filsoniana S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetidae*, *Lecanoromycetes*, five species, type: *F. australiensis* (S.Y. Kondr., Kärnefelt & Filson) S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur, lichenized, see Kondratyuk et al. (2016b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Fimetariella N. Lundq. 1964, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *F. rabenhorstii* (Niessl) N. Lundq., asexual morph unknown, saprobes, terrestrial, Europe, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Finkia Vain. 1929, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *F. portoricensis* Vain., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Fischerula Mattir. 1928, *Morchellaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *F. macrospora* Mattir., asexual morph unknown, ectomycorrhizal, saprobes, terrestrial, Italy, USA, see Lumbsch and Huhndorf (2010; outline, accepted as *Morchellaceae*), Trappe et al. (2010b; DNA, phylogeny), Alvarado et al. (2011a; DNA, phylogeny, accepted as a genus in *Helvellaceae*), Healy et al. (2013; DNA, phylogeny, ectomycorrhizal), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; accepted as a genus in *Morchellaceae*), cultures and sequences are available.

Fissurina Fée 1824, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, over 150 species, type: *F. dumastii* Fée, asexual morph unknown, lichenized, terrestrial, mostly tropical, see Archer (2009; key Australia), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2014, 2016a, b), Kirk et al. (2013; genus accepted), sequences are available.

Fissuroma Jian K. Liu, Phook., E.B.G. Jones & K.D. Hyde 2011, *Aigialaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *F. maculans* (Rehm) J.K. Liu, E.B.G. Jones & K.D. Hyde, asexual morph unknown, saprobes, Japan, Thailand, see Liu et al. (2011b; morphology, DNA, phylogeny), Hyde et al. (2013; accepted as a genus in *Aigialaceae*), Wijayawardene et al. (2014c; outline), Phookamsak et al. (2015b; taxonomy), holotype and ex-type of the type: MFLU 11-1143, MFLUCC 10-0886.

Fitzpatrickella Benny, Samuelson & Kimbr. 1985, *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, one species: *F. operculata* Benny, Samuelson & Kimbr., asexual morph unknown, terrestrial, parasitic on fruits of *Drimys confertifolia* Phil., Juan Fernández Island, Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wood et al. (2016; morphotaxonomy), cultures and sequences are unavailable, needs phylogenetic assessment.

Flabellocladia Nawawi 1985, *Ascomycota* genera *incertae sedis*, four species, type: *F. gigantea*, hyphomycetous, from foam, aquatic, worldwide, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Fiuza and Gusmão (2013; morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Flabellospora Alas. 1968, *Ascomycota* genera *incertae sedis*, six species, type: *F. crassa*, hyphomycetous, on submerged plant material, aquatic, worldwide, see Patil et al. (2010; morphology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Flagellosphaeria Aptroot 1995, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *F. polytrichospora* (Lucas & Sousa de Câmara) Aptroot, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015a, b; outline), cultures and sequences are unavailable.

Flagellospora Ingold 1942, *Leotiaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *F. curvula* Ingold, hyphomycetous, saprobes, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Baschien et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Lombard et al. (2014; phylogeny), cultures and sequences are available.

Flakea O.E. Erikss. 1992, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *F. papillata* O.E. Erikss., lichenized, see Lumbsch and

Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Flammeascoma Phook. & K.D. Hyde 2015, *Anteagloniaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *F. bambusae* Phook. & K.D. Hyde, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, new species), Liu et al. (2015a; taxonomy), holotype and ex-type of the type: MFLU 10-0061, MFLUCC 10–0551.

Flammispora Pinruan, Sakay., K.D. Hyde & E.B.G. Jones 2004, *Savoryellales*, genera *incertae sedis*, *Sordariomycetes*, two species, type: *F. bioteca* Pinruan, Sakay., K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, Thailand, USA, see Lumbsch and Huhndorf (2010; outline, as a genus in *Hypocreomycetidae*, genera *incertae sedis*), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type of the type: BBH WAH134, BCC13368.

Flammocladiella Crous, L. Lombard & R.K. Schumach. 2015, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *F. aceris* Crous, L. Lombard & R.K. Schumach., asexual morph coelomycetous, saprobes, Germany, see Crous et al. (2015c; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22263, CPC 24422.

Flavobathelium Lücking, Aptroot & G. Thor 1997, *Strigulaceae*, *Strigulales*, *Dothideomycetes*, one species, type: *F. epiphyllum* Lücking, Aptroot & G. Thor, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2011b; DNA, phylogeny), Hyde et al. (2013; accepted as a genus in Strigulaceae), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Lücking et al. (2017a; classification), cultures available for the type: MPN67 (*fide* Nelsen et al. 2011a, b).

Flavocetraria Kärnefelt & A. Thell 1994, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *F. cucullata* (Bellardi) Kärnefelt & A. Thell, asexual morph, unknown, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Flavomyces D.G. Knapp, Kovács, J.Z. Groenew. & Crous 2015, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *F. fulophazii* D.G. Knapp, Kovács, J.Z. Groenew. & Crous, endophytes, see Knapp et al. (2015; phylogeny), cultures and sequences are available.

Flavoparmelia Hale 1986, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 40 species, type: *F. caperata* (L.) Hale, asexual morph unknown, lichenized, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Del-Prado et al. (review, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Flavoplaca Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 27 species, type: *F. citrina* (Hoffm.) Arup, Frödén & Søchting, asexual morph unknown, lichenized, terrestrial, widely distributed, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Flavopunctelia (Krog) Hale 1984 (= *Punctelia* subgen. Flavopunctelia Krog 1982 *fide* Species Fungorum 2017), seven species, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, type: *F. flaventior* (Stirt.) Hale, asexual morph unknown, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny, molecular), Divakar et al. (2015; evolutionary study of family), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Flegographa A. Massal. 1860 (see Species Fungorum 2017 for synonyms), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *F. leprieurii* (Mont.) A. Massal., lichenized, see Rivas Plata et al. (2013; taxonomy, reinstated the genus), Lücking et al. (2017a; classification), sequences are available.

Floricola Kohlm. & Volkm.-Kohlm. 2000, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *F. striata* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, cosmopolitan, see Thambugala et al. (2015b; taxonomy), Ariyawansa et al. (2015a; new species), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora*, but in here we do not agree with them), Wijayawardene et al. (2016b; taxonomy), cultures and sequences are available.

Flosculomyces B. Sutton 1978, *Ascomycota* genera *incertae sedis*, two species, type: *F. floridaensis* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, Ivory Coast, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: IMI 215981c, cultures and sequences are unavailable, genus need revision.

Fluctua Marbach 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *F. megapotamica* (Malme) Marbach, lichenized, see Lücking et al. (2017a; classification), sequences are unavailable.

Fluminicola S.W. Wong, K.D. Hyde & E.B.G. Jones 1999, *Papulosaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, one species, type: *F. bipolaris* S.W. Wong, K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, Philippines, see Lumbsch and Huhndorf (2010; outline, as a genus in *Annulatascaceae*), Kirk et al. (2013; genus accepted), Réblová et al. (2013; placed in *Papulosaceae*),

Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Papulosaceae*), holotype of the type: HKU (M) 3127.

Fluviatispora K.D. Hyde 1994, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three species, type: *F. tunicata* K.D. Hyde, saprobes, aquatic, Brunei, Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016a, b, c), cultures and sequences are unavailable, holotype of type: BRIP 21391.

Fodinomyces Vázquez-Campos & Neilan 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *F. uranophilus* X. Vázquez-Campos, hyphomycetous, sexual morph unknown, from soil, terrestrial, Australia, see Vazquéz-Campos et al. (2014; morphology, DNA, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS 136962.

Foliocryphia Cheew. & Crous 2009, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *F. eucalypti* Cheew. & Crous, coelomycetous, sexual morph unknown, pathogens, terrestrial, Australia, see Cheewangkoon et al. (2009; morphology, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type cultures of type: CBS H-20299, ex-type CPC 12494 = CBS 124779.

Follmannia C.W. Dodge 1967 (see Species Fungorum 2017 for synonyms), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *F. rufa* C.W. Dodge, lichenized, see Arup et al. (2013; reinstated the genus), Lücking et al. (2017a; classification), sequences are available.

Follmanniella Peine & B. Werner 1995, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *F. scutellata* Peine & B. Werner, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Fonsecaea Negroni 1936, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, eight species, type: *F. pedrosoi* (Brumpt) Negroni, hyphomycetous, mostly terrestrial, in soil and on plant material, but also reported from aquatic environments, most species are pathogenic to animals, ranging from crustaceans to humans, America, Asia, Europe and Africa, see Vicente et al. (2008, 2012; environmental reservoirs, new species), Najafzadeh et al. (2010, 2011a, b; phylogeny, new species, molecular epidemiology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Seyedmousavi et al. (2013; pathogenicity to animals), de Azevedo et al. (2015; new species), ex-neotype: CBS 271.37.

Fontanospora Dyko 1978, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *F. eccentrica* (R.H. Petersen) Dyko, hyphomycetous, sexual morph unknown, saprobes, aquatic, USA, see Baschien et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Forliomyces Phukhams., Camporesi & K.D. Hyde 2016, *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *F. uniseptata* Phukhams., Camporesi & K.D. Hyde, coelomycetous, saprobes, terrestrial, Italy, see Phukhamsakda et al. (2016a; taxonomy, phylogeny), Wijayawardene et al. (2016b, 2017; taxonomy, outline), holotype and ex-type of the type: MFLU 16-0031, MFLUCC 15-0765.

Fouragea Trevis. 1880 (see Species Fungorum 2017 for synonyms), *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *F. filicina* (Mont.) Trevis., lichenized, see Frisch et al. (2014; reinstated), Lücking et al. (2017a; classification), sequences are available.

Foveostroma DiCosmo 1978 (= *Micropera* Lév. 1846; = *Micula* Duby 1858 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, six species, type: *F. drupacearum* (Lév.) DiCosmo, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Fracchiaea Sacc. 1873, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, three species, type: *F. heterogenea* Sacc., asexual morph unknown, lichenicolous, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; DNA), Vasilyeva et al. (2010; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for *Fracchiaea broomeana* (SMH347 *fide* Mugambi and Huhndorf 2010).

Fragosphaeria Shear 1923, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, four species, type: *F. purpurea* Shear, asexual morph hyphomycetous, from soil, pathogens (human), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not accept), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for type: CBS 133.34.

Franwilsia S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *F. bastowii* (S.Y. Kondr. & Kärnefelt) S.Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, A.S. Kondr. & Hur; lichenized, see Kondratyuk et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Fremineavia Nieuwl. 1916 (= *Titania* Berl. 1890 *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *F. berkeleyi* (Berl.) Nieuwl., asexual morph unknown, saprobes, North America, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Fremitomyces P.F. Cannon & H.C. Evans 1999, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *F. punctatus* P.F. Cannon & H.C. Evans, sexual morph unknown, saprobes, terrestrial, East Africa, Seychelles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Friedmanniomyces Onofri 1999, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *F. endolithicus* Onofri, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Antarctica, see Schoch et al. (2009; phylogeny), Selbmann et al. (2008; DNA, review, phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Teratosphaeriaceae*), Kirk et al. (2013; genus accepted), Egidi et al. (2014; phylogeny), Ertz et al. (2014b; phylogeny), Quaedvlieg et al. (2014; phylogeny), cultures available for the epitype: CBS 119423=CCFEE 5208.

Frigidispora K.D. Hyde & Goh 1999, *Ascomycota* genera *incertae sedis*, six species, type: *F. colnensis* K.D. Hyde & Goh, coelomycetous, sexual morph unknown, saprobes, aquatic, British Isles, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Frigidopyrenia Grube 2005, *Ascomycota* genera *incertae sedis*, one species, type: *F. bryospila* (Nyl.) Grube, lichenized, subarctic, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Xanthopyreniaceae*), Lücking et al. (2017a; classification), sequences are unavailable.

Frondicola K.D. Hyde 1992, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, nine species, type: *F. tunitricuspis* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Brunei, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Frondisphaeria K.D. Hyde 1996, *Dothideomycetes* genera *incertae sedis*, two species, type: *F. palmicola* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, misspelled as *Frondisphaera*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, misspelled as *Frondisphaera*), Daranagama et al. (2016d; taxonomy), cultures and sequences are unavailable.

Frondispora K.D. Hyde 1993, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *F. bicalcarata* (Ces.) K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Frutidella Kalb 1994, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *F. caesioatra* (Schaer.) Kalb, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Fujimyces Minter & Caine 1980, *Ascomycota* genera *incertae sedis*, two species, type: *F. oödes* (Bayl. Ell.) Minter & Caine, coelomycetous, sexual morph unknown, saprobes, terrestrial, British Isles, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI35344, cultures and sequences are unavailable.

Fulgidea Bendiksby & Timdal 2013, *Umbilicariaceae*, *Umbilicariales*, *Lecanoromycetes*, two species, type: *F. oligospora* (Timdal) Bendiksby & Timdal, lichenized, see Bendiksby and Timdal (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available. holotype of type species: O-L-767,

Fuligomyces Morgan-Jones & Kamal 1984, *Ascomycota* genera *incertae sedis*, two species, type: *F. macrosporus*, asexual morph hyphomycetous, saprobes (symptoms on leaves similar to sooty mould), terrestrial, India, (Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: AUA, IMI 248960, GPU (KA 69), cultures and sequences are unavailable.

Fulvia Cif. 1954 (= *Berteromyces* Cif. 1954; = *Cercodeuterospora* Curzi 1932; = *Ragnhildiana* Solheim 1931 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *F. fulva* (Cooke) Cif., hyphomycetous, sexual morph unknown, on *Lycopersicon esculentum*, plant pathogenic, see Videira et al. (2016; morphology, phylogeny), holotype BPI 426698, for epitypification see Videira et al. (2017).

Fulvocentrum E.B.G. Jones & Abdel-Wahab 2014, *Juncigenaceae*, *Torpedosporales*, *Sordariomycetes*, two species, type: *F. aegyptiaca* (Abdel-Wahab, El-Shar. & E.B.G. Jones) E.B.G. Jones & Abdel-Wahab, asexual morph undermined, marine, tropical/subtropical, see Jones et al. (2014, 2015; morphology, phylogeny, outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Fulvoflamma Crous 2006, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *F. eucalypti* Crous, coelomycetous, sexual morph unknown, saprobes, endophytes, terrestrial, Spain, see Wijayawardene et al. (2012, 2017; outline), holotype and ex-type strains of the type: CBS H-18045, 1243 = CBS 118549.

Fulvophyton Ertz & Tehler 2011, *Roccellographaceae*, *Arthoniales*, *Arthoniomycetes*, nine species, type: *F. stalactinum* (Nyl.) Ertz & Tehler, sexual morph with punctiform or shortly lirellate ascomata, lichenized, terrestrial, tropical, see Ertz and Tehler (2011; morphology, phylogeny), Tehler et al. (2013a; one new combination), Lücking et al. (2017a; classification), sequences are available.

Fumagopsis Speg. 1911 (= *Tricornispora* Bonar 1967 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *F. triglifioides*, hyphomycetous, sexual morph unknown, saprobes or plant pathogenic on plant leaves, terrestrial, known from Argentina and India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: in LPS, cultures and sequences are unavailable.

Fumiglobus D.R. Reynolds & G.S. Gilbert 2006, *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, 15 species, type: *F. ficinus* (Bat., Nascim. & Cif.) D.R. Reynolds & G.S. Gilbert, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2014c; outline), Bose et al. (2014; DNA, new species), cultures and sequences are available.

Funbolia Crous & Seifert 2011, *Dothideomycetes* genera *incertae sedis*, one species, type: *F. dimorpha* Crous & Seifert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Crous et al. (2011a; morphology, DNA), Wijayawardene et al. (2012, 2014c; outline), holotype and ex-type strains of the type: CBS H-20577, CPC 14170.

Funiliomyces Aptroot 2004, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *F. biseptatus* Aptroot, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available for the type: AY772015 (LSU) (fide Aptroot 2004).

Furcaspora Bonar 1965, *Ascomycota* genera *incertae sedis*, two species, type: *F. pinicola* Bonar, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI35344, ex-type cultures and sequences are available for *Furcaspora eucalypti* Crous & Verkley (CPC 12556 = CBS 119111).

Fusamen (Sacc.) P. Karst. 1890 (= *Calogloeum* Syd. 1924; = *Fusarium* subgen. Fusamen Sacc. 1886; = *Platycarpium* P. Karst. 1905 [1905-1906] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *F. fungicola* P. Karst., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Fusariella Sacc. 1884 (= *Kurssanovia* Pidopl. 1948 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, 19 species, type: *F. atrovirens*, asexual morph hyphomycetous, on plants, leaf litter, dung and in soil, terrestrial, worldwide, Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Lin et al. (2016a; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Fusarium Link 1809 (= *Gibberella* Sacc. 1877 *fide* Maharachchikumbura et al. 2016b; see Lombard et al. 2015b and Species Fungorum 2017 for additional synonyms), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 120 species, type: *F. roseum* Link, hyphomycetous, sexual morph *Gibberella*, terrestrial, pathogens, worldwide, see Seifert et al. (2011; morphology), Zhu et al. (2013; pathogens), Wijayawardene et al. (2012, 2017; outline), Lombard et al. (2015b; phylogeny, taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Fuscidea V. Wirth & Vězda 1972 (= *Biatorinella* Deschâtres & Werner 1974; = *Fuscidea* V. Wirth & Vězda 1972 *fide* Species Fungorum 2017), *Fuscideaceae*, *Umbilicariales*, *Lecanoromycetes*, 35 species, type: *F. aggregata* (Flot.) V. Wirth & Vězda, lichenized, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; taxonomy), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Fuscoderma (D.J. Galloway & P.M. Jørg.) P.M. Jørg. & D.J. Galloway 1989 (= *Leioderma* subgen. Fuscoderma D.J. Galloway & P.M. Jørg. 1987 *fide* Species Fungorum 2017), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, five species, type: *F. applanatum* (D.J. Galloway & P.M. Jørg.) P.M. Jørg. & D.J. Galloway, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Fuscolachnum J.H. Haines 1989, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *F. pteridis* (Alb. & Schwein.) J.H. Haines, asexual morph unknown, saprobes, epiphytes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Fuscopannaria P.M. Jørg. [nom. cons. prop.] 1994 (= *Kroswia* P.M. Jørg. 2002; = *Moelleropsis* Gyeln. 1939 *fide* Jørgensen et al. 2013; Species Fungorum 2017), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 58 species, type: *F. leucosticta* (Tuck.) P.M. Jørg., lichenized, see Ekman et al. (2014; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jørgensen et al. (2013; *Fuscopannaria* over *Moelleropsis*), Lücking et al. (2017a; classification), sequences are available.

Fuscophialis B. Sutton 1977, *Ascomycota* genera *incertae sedis*, four species, type: *F. brasiliensis* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, Cuba, Mauritius, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, genus need revision.

Fuscosclera Hern.-Restr et al. 2017, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *F. lignicola* Hern.-Restr., J. Mena & Gene, hyphomycetous, sexual morph unknown, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Fuscosporella J. Yang, Bhat & K.D. Hyde 2016, *Fuscosporellaceae*, *Fuscosporellales*, *Sordariomycetes*, one species, type: *F. pyriformis* J. Yang, Bhat & K.D. Hyde, hyphomycetous, saprobes, Thailand, see Yang et al. (2016c; taxonomy, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Fuscostagonospora Kaz. Tanaka & K. Hiray. 2015, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *F. sasae* Kaz. Tanaka & K. Hiray., coelomycetous, saprobes, terrestrial, Japan, see Tanaka et al. (2015; morphology, phylogeny), Wijayawardene et al. (2016b; taxonomy), holotype and ex-type of the type: HHUF 29106, CBS 139687.

Fusichalara S. Hughes & Nag Raj 1973, *Ascomycota* genera *incertae sedis*, two species, type: *F. dimorphospora* S. Hughes & Nag Raj, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012; outline, treated as a genus in *Chaetosphaeriaceae*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; excluded from *Chaetosphaeriaceae* and placed in *Ascomycota* genera *incertae sedis*), cultures and sequences are unavailable.

Fusicladiella Höhn. 1919, *Ascomycota* genera *incertae sedis*, five species, type: *F. aronici* (Sacc.) Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology) and Wijayawardene et al. (2012; treated as *Mycosphaerellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Fusicladium Bonord. 1851 (see Species Fungorum 2017 for synonyms), *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, c. 75 species, type: *P. virescens* Bonord., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Braun (2009; new species), Seifert et al. (2011; morphology), Crous et al. (2016b; new species, phylogeny), Wijayawardene et al. (2017; outline), cultures are available.

Fusiconidium J.F. Li, Phookamsak & K.D. Hyde 2017, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. aquaticus* Z.L. Luo, Baht & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Italy, China, see Li et al. (2017a; taxonomy, phylogeny), holotype of the type: MFLU 16–2139, cultures and sequences are available.

Fusicolla Bonord. 1851 (= *Fusarium* subgen. *Leptosporium* Sacc. 1886; = *Leptosporium* (Sacc.) Höhn. 1923 *fide* Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, eight species, type: *F. betae* Bonord., hyphomycetous, holomorph, diverse substrates and hosts, terrestrial and aquatic, worldwide, see Gräfenhan et al. (2011; DNA, phylogeny) Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available.

Fusoidiella Videira & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *F. depressa* (Berk. & Broome) Videira & Crous, hyphomycetous, sexual morph mycosphaerella-like, plant pathogenic, see Videira et al. (2016; morphology, phylogeny), ex-type strain unavailable, authentic specimen (herb. K(M) 29181, on *Angelica sylvestris*, Great Britain).

Fusoidispora Vijaykr., Jeewon & K.D. Hyde 2005, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *F. aquatica* Vijaykr., Jeewon & K.D. Hyde, asexual morph unknown, saprobes, aquatic, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: HKU (M) 17484, cultures and sequences are available.

Fusticeps Webster & R.A. Davey 1980, *Ascomycota* genera *incertae sedis*, five species, type: *F. bullatus* Webster & R.A. Davey, hyphomycetous, sexual morph unknown, on plant litter in water, aquatic, Tropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Chuaseeharonnachai et al. (2014; key), holotype of type: IMI 245198, cultures and sequences are unavailable.

Gabura Adans., *Arctomiaceae*, *Arctomiales*, *Lecanoromycetes*, one species, type: *G. fascicularis* (L.)

P.M. Jørg.), see Jørgensen (2014: taxonomy), Lücking et al. (2017b: classification), sequences are available.

Gaeumanniella Petr. 1952, *Ascomycota* genera *incertae sedis*, one species, type: *G. singularis* Petr., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gaeumannomyces Arx & D.L. Olivier 1952 (= *Harpophora* W. Gams 2000; = *Rhaphidophora* Ces. & De Not. 1863; = *Rhaphidospora* Fr. 1849 *fide* Zhang et al. 2016d; Species Fungorum 2017), *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, c. 13 species, type: *G. graminis* (Sacc.) Arx & D.L. Olivier, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011c; phylogeny), Kirk et al. (2013; genus accepted), Zhang et al. (2015a, b; phylogeny), Luo et al. (2015a; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Gaillardiella Pat. 1895, *Bertiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *G. pezizoides* Pat., asexual morph unknown, saprobes, terrestrial, South America, see Mugambi and Huhndorf (2010; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures available for the type: GKM1245.

Galactomyces Redhead & Malloch 1977, ?*Dipodascaceae*, *Saccharomycetales*, *Saccharomycetes*, five species, type: *G. geotrichum* (E.E. Butler & L.J. Petersen) Redhead & Malloch, asexual reproduction is present, saprophytic, soil, rotted fruit and other plant parts, tree exudates, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Galeaticarpa A. Hashim. & Kaz. Tanaka 2017, *Lophiotremataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *G. aomoriensis* A. Hashim. & Kaz. Tanaka, asexual morph coelomycetous, saprobes, Asia, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Galeoscypha Svrček & J. Moravec 1989, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *G. pileiformis* (Svrček) Svrček & J. Moravec, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Galiella Nannf. & Korf 1957, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, eight species, type: *G. rufa* (Schwein.) Nannf. & Korf, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Galiicola Tibpromma, Camporesi & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *Galiicola pseudophaeosphaeria* Tibpromma, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Ariyawansa et al. (2015a; taxonomy, phylogeny), cultures available for type: MFLUCC 14-0524.

Gampsonema Nag Raj 1975, *Ascomycota* genera *incertae sedis*, one species, type: *G. exile* (Tassi) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gamsia M. Morelet 1969, *Microascaceae*, *Microascales*, *Sordariomycetes*, three species, type: *G. dimera* (W. Gams) M. Morelet, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Sandoval-Denis et al. (2016b; DNA, phylogeny), cultures and sequences are available for *G. simplex* (CBS 546.69) and *G. aggregata* (CBS 251.69).

Gamsylella M. Scholler, Hagedorn & A. Rubner 1999, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, type: *G. arcuata* (Scheuer & J. Webster) M. Scholler, Hagedorn & A. Rubner, cf. six species, hyphomycetous, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gangliophora Subram. 1992, *Ascomycota* genera *incertae sedis*, one species, type: *G. casuarinae* (Matsush.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Taiwan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gangliostilbe Subram. & Vittal 1976, *Ascomycota* genera *incertae sedis*, one species, type: *G. indica* Subram. & Vittal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Ma et al. (2014a, b; new species, China), cultures and sequences are unavailable.

Garnaudia Borowska 1977, *Ascomycota* genera *incertae sedis*, three species, type: *G. elegans* Borowska, hyphomycetous, synanamorph selenosporella-like, on wood, bark and dead leaves, terrestrial, Cuba, Poland, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted),

holotype of type: WA 20592, cultures and sequences are unavailable.

Gassicurtia Feé 1825 (see Species Fungorum 2017 for synonyms), *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 27 species, type: *G. coccinea* Fée, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Gaubaea Petr. 1942, *Ascomycota* genera *incertae sedis*, two species, type: *G. insignis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, central Asia, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Geastrumia Bat. 1960 (= *Benekea* Bat. & J.L. Bezerra 1960; = *Shomea* Bat. & J.L. Bezerra 1964 [1963] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *G. polystigmatis* Bat. & M.L. Farr, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Geejayessia Schroers, Gräfenhan & Seifert 2011, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, c. five species, type: *G. cicatricum* (Berk.) Schroers (current name: *Fusarium cicatricum* (Berk.) O'Donnell & Geiser *fide* Geiser et al. 2013), sexual morph unknown, saprobes, pathogens, terrestrial, cosmopolitan, see Geiser et al. 2013; treated the type species as a synonym of *Fusarium cicatricum*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Geisleria Nitschke 1861 (see Species Fungorum 2017 for synonyms), *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *G. sychnogonoides* Nitschke, lichenized, see Aptroot et al. (2015b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Gelasinospora Dowding 1933, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *G. tetrasperma* Dowding, asexual morph unknown, saprobes, terrestrial, Ivory Coast, see Lumbsch and Huhndorf (2010; outline), Nygren et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available for type: ATCC 11345.

Gelatinipulvinella Hosoya & Y. Otani 1995 (= *Aureohyphozyma* Hosoya & Y. Otani *fide* Johnston et al. 2014b), *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, two species, type: *G. astraeicola* Hosoya & Y. Otani, asexual morph hyphomycetous, saprobe, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), holotype of the type: TNS-F-52070.

Gelatinocrinis Matsush. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *G. roseus* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gelatinomyces N. Sanoamuang, W. Jitjak, S. Rodtong & A.J.S. Whalley 2013, *Leotiomycetes* genera *incertae sedis*, one species, type: *G. siamensis* N. Sanoamuang, W. Jitjak, S. Rodtong & A.J.S. Whalley, asexual morph hyphomycetous, saprobes, terrestrial, Thailand, see Sanoamuang et al. (2013; morphology, DNA, phylogeny), Jaklitsch et al. (2016a; classification, treated as a synonym of *Myriodiscus*), holotype and ex-type cultures of the type: K(M) 188078, CBS 135071, close to *Leotiomycetes* in phylogenetic analyses.

Gelatinopsis Rambold & Triebel 1990 (= *Micropyxis* Seeler 1943 *fide* Species Fungorum 2017), *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, cf. eight species, type: *G. geoglossi* (Ellis & Everh.) Rambold & Triebel, asexual morph unknown, saprobes, lichenicolous, terrestrial, worldwide, see Navarro-Rosinés et al. (2008; new species), Kocourková and Knudsen (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gelatinopycnis Dyko & B. Sutton 1979, *Ascomycota* genera *incertae sedis*, one species, type: *G. hartigiana* (Allesch.) Dyko & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gelatinosporium Peck 1873 (= *Gelatinosporis* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *G. betulinum* Peck, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gelineostroma H.J. Swart 1988, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *G. athrotaxis* H.J. Swart, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Geltingia Alstrup & D. Hawksw. 1990, *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, one species, type: *G. associata* (Th.Fr.) Alstrup & D. Hawksw., asexual morph unknown, on lichens, terrestrial, Arctic, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Odontotremataceae*), Kirk et al. (2013; genus accepted), Suija et al. (2014; phylogeny),

Jaklitsch et al. (2016a, b; position), holotype of type: UPS, cultures and sequences are unavailable.

Geminispora Pat. 1893 (= *Diplosporis* Clem. 1909 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *G. mimosae* Pat., sexual morph unknown, saprobes, terrestrial, East Africa, Seychelles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Geminoarcus K. Ando 1993, *Ascomycota* genera *incertae sedis*, three species, type: *G. pachysporus* K. Ando, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gemmaspora D. Hawksw. & Halici 2007, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *G. lecanorae* (Werner) D. Hawksw. & Halici, lichenicolous, Syria, Turkey and Uzbekistan, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; position), holotype of type: BC and epitype ERC-MGH 02274, cultures and sequences are unavailable.

Gemmulina Descals & Marvanová 1999, *Ascomycota* genera *incertae sedis*, one species, type: *G. botryosa* (Descals) Descals & Marvanová, asexual morph hyphomycetous, has a yeast-like phase, from foam in streams, aquatic, Canada and United Kingdom, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: IMI 254853, cultures and sequences are unavailable.

Genea Vittad. 1831 (= *Genabea* Tul. & C. Tul. 1845; = *Hydnocaryon* Wallr. 1833; = *Myrmecocystis* Harkn. 1899; = *Pseudogenea* Bucholtz 1901 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *G. verrucosa* Vittad., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Alvarado et al. (2014; new species, phylogeny), Alvarado et al. (2016; revisit), Kaounas et al. (2016; new species), cultures and sequences are available.

Geniculospora Sv. Nilsson ex Marvanová & Sv. Nilsson 1971 (= *Geniculospora* Sv. Nilsson 1964 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *G. inflata* (Ingold) Sv. Nilsson ex Marvanová & Sv. Nilsson, sexual morph unknown, saprobes, aquatic, worldwide, see Wijayawardene et al. (2012, 2017; outline), Duarte et al. (2012; DNA), Kirk et al. (2013; did not list), cultures and sequences are available.

Geodina Denison 1965, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *G. guanacastensis* Denison, asexual morph unknown, saprobe, terrestrial, Costa Rica, Canary Islands, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Geoglossum Pers. 1794 (= *Cibalocoryne* Hazsl. 1881; = *Corynetes* Hazsl. 1881; = *Gloeoglossum* E.J. Durand 1908; = *Microglossum* Sacc. 1884; = *Thuemenidium* Kuntze 1891 *fide* Species Fungorum 2017), *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, two species, type: *G. glabrum* Pers., asexual morph unknown, saprobe, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Arauzo and Iglesias (2014; new species), Loizides et al. (2015; new species), Crous et al. (2016b; new species), cultures and sequences are available.

Geomyces Traaen 1914, *Myxotrichaceae*, *Leotiomycetes* families *incertae sedis*, c. ten species, type: *G. auratus* Traaen, hyphomycetous, sexual morph unknown, saprobes, in soil, on many other substrata, humans and other animals, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017), Chen et al. (2017b; new species), cultures and sequences are available.

Geopora Harkn. 1885 (= *Peziza* subgen. Sepultaria Cooke 1879; = *Pseudohydnotrya* E. Fisch 1897; = *Sepultaria* (Cooke) P. Karst. 1884 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, c. 20 species, type: *G. cooperi* Harkn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Frank et al. (2011; new species), Kirk et al. (2013; genus accepted), Flores-Rentería et al. (2014; new species), cultures and sequences are available.

Geopyxis (Pers.) Sacc. 1889, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *G. carbonaria* (Alb. & Schwein.) Sacc., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wang et al. (2016c; taxonomy), cultures and sequences are available.

Geosmithia Pitt 1979, *Hypocreales* genera *incertae sedis*, six species, type: *G. lavendula* (Raper & Fennell) Pitt, sexual morph unknown, saprobes, terrestrial, Ecuador, see Kolařík et al. (2011, 2015b; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wu et al. (2013b; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Geotrichum Link 1809 (= *Endyllium* Clem. 1931; = *Fermentotrichon* E.K. Novák & Zsolt 1961; = *Galactomyces* Redhead & Malloch 1977; = *Geotrichum* Link 1809; = *Magnusiomyces* Zender 1926 [1925]; = *Oosporoidea* Sumst. 1913; = *Polymorphomyces* Coupin

1914; = *Zendera* Redhead & Malloch 1977 *fide* Species Fungorum 2017), ?*Dipodascaceae*, *Saccharomycetales*, *Saccharomycetes*, three species, type: *G. candidum* Link, asexual morph present, saprophytic, soil, rotted fruit and other plant parts, tree exudates, worldwide, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gesasha Abdel-Wahab & Nagahama 2011, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three species, type: *G. peditatus* Abdel-Wahab & Nagah., saprobes, marine, Japan, asexual morph unknown, see Abdel-Wahab and Nagahama (2011; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype of the type: IMI 397958.

Gibbago E.G. Simmons 1986, *Dothideomycetes* genera *incertae sedis*, one species, type: *G. trianthemae* E.G. Simmons, sexual morph unknown, pathogens, terrestrial, USA, see Wijayawardene et al. (2012, 2014c; outline), Akhtar et al. (2013; pathogens, Pakistan), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gibbera Fr. 1825 (= *Maireella* Syd. ex Maire 1908; = *Montagnina* Höhn. 1910; = *Pseudotthia* Henn. 1900; = *Winteromyces* Speg. 1912 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, c. 28 species, type: *G. vaccinii* (Sowerby) Fr., sexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Hyde et al. (2013; excluded from *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are available.

Gibberidea Fuckel 1870 (= *Gibberinula* Kuntze 1898 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *G. visci* Fuckel, sexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Gibbosporina Elvebakk, Hong & P.M. Jørg. 2016, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 13 species, type: *G. boninensis* (Kurok.) Elvebakk & P.M. Jørg., lichenized, see Elvebakk et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Gibellia Sacc. 1885, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *G. dothideoides* Sacc. & Berl., asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Gibellina Pass. 1886 (= *Gibellia* Pass. 1886 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, three species, type: *G. cerealis* (Pass.) Pass., asexual morph unknown, pathogens, terrestrial, Asia, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for type: MF-C22704 (unpublished).

Gibellula Cavara 1894 (= *Synsterigmatocystis* Costantin 1888 *fide* Species Fungorum 2017), *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *G. pulchra* Cavara, hyphomycetous, sexual morph unknown, parasitic, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Han et al. (2013; new species, China), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for *Gibellula leiopus*.

Gibellulopsis Bat. & H. Maia 1959, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, two species, type: *G. piscis* Bat. & H. Maia, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Han et al. (2013; new species, China), Kirk et al. (2013; genus accepted), Hirooka et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Gigantospora B.S. Lu & K.D. Hyde 2003, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *G. gigaspora* B.S. Lu & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Gilkeya M.E. Sm., Trappe & Rizzo 2007, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *G. compacta* (Harkn.) M.E. Sm. & Trappe, asexual morph unknown, biotrophic, terrestrial, worldwide, see Gladdish et al. (2010; DNA), Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Gilletiella Sacc. & P. Syd. 1899 (= *Epibotrys* Theiss. & Syd. 1915; = *Heterochlamys* Pat. 1895; = *Melanochlamys* Syd. & P. Syd. 1914 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *G. chusqueae* (Pat.) Sacc. & P. Syd., asexual morph coelomycetous (ascochyta-like), saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Gillotia Sacc. & Trotter 1913, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type:

G. orbicularis (Syd. & P. Syd.) Sacc. & Trotter, asexual morph asteromella-like, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Gilmaniella G.L. Barron 1964 (= *Adhogamina* Subram. & Lodha 1964 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, nine species, type: *G. humicola* G.L. Barron, hyphomycetous, from soil, dung, litter and bamboo, terrestrial, worldwide, see Dubey et al. (2011; new species, India), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Goh et al. (2013; new species, Malaysia), Kirk et al. (2013; genus accepted), ex-type strain of type: ATCC 16013 = O.A.C. 10076. = CBS 220.65 = IFO 9235, Holotype of type: O.A.C. 10076 (dried culture).

Gintarasia Kraichak, Lücking & Lumbsch 2013, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *G. megalophthalma* (Müll. Arg.) Kraichak, Lücking & Lumbsch, lichenized, terrestrial, tropical, see Kraichak et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Giulia Tassi 1904, *Ascomycota* genera *incertae sedis*, one species, type: *G. tenuis* (Sacc.) Tassi ex Sacc. & D. Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Glaphyriopsis B. Sutton & Pascoe 1987, *Ascomycota* genera *incertae sedis*, two species, type: *G. brunnea* B. Sutton & Pascoe, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Glarea Bills & Paláez 1999, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *G. lozoyensis* Bills & Peláez, sexual morph unknown, saprobes, terrestrial, Spain, see Wijayawardene et al. (2012; outline, listed as a genus in *Dermateaceae*), Chen et al. (2013d; DNA, phylogeny, accepted as a genus in *Helotiaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are available for type: ATCC 20868.

Glaucotrema Rivas Plata & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *G. glaucophaenum* (Kremp.) Rivas Plata & Lumbsch, lichenized, see Rivas Plata et al. (2012b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Glaxoa P.F. Cannon 1997, *Pleosporales* genera *incertae sedis*, one species, type: *G. pellucida* P.F. Cannon, asexual morph unknown, saprobes, terrestrial, UK, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Tubeufiaceae*), Boonmee et al. (2014a; accepted as genus in *Pleosporales* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, cultures and sequences are unavailable.

Glaziella Berk. 1880, *Glaziellaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *G. vesiculosa* Berk., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Glioannellodochium Matsush. 1989, *Ascomycota* genera *incertae sedis*, one species, type: *G. australiense* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: Matsushima, MFC-8A230, cultures and sequences are unavailable.

Glioblastocladium Matsush. 1989, *Ascomycota* genera *incertae sedis*, one species, type: *G. australiense* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: Matsushima, MFC-8A329, cultures and sequences are unavailable.

Gliocephalis Matr. 1899, *Pyxidiophoraceae*, *Pyxidiophorales*, *Laboulbeniomycetes*, two species, type: *G. hyalina* Matr., asexual morph unknown, parasitic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gliocephalotrichum J.J. Ellis & Hesselt. 1962, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 13 species, type: *G. bulbilium* J.J. Ellis & Hesselt., hyphomycetous, sexual morph unknown, in soil, associated with post-harvest fruit spoilage of several important tropical fruit crops, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2014, 2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: BPI 414619, ex-type of the type: CBS 242.62 = ATCC 22228 = IFO 9325 = IMI 096357 = MUCL 18575 = NRRL 2899 = QM 9007.

Gliocladiopsis S.B. Saksena 1954 (= *Acontiopsis* Negru 1961; = *Tetracytum* Vanderw. 1945 *fide* Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, ten species, type *G. sagariensis* S.B. Saksena., soil-borne fungi, worldwide, see Seifert et al. (2011; morphology), Lombard and Crous (2012), Wijayawardene et al. (2012, 2017; outline), Lombard et al. (2015b; phylogeny), holotype of the type: CBS 199.55, ex-type of the type: CBS 199.55.

Gliomastix Guég. 1905 (= *Basitorula* G. Arnaud 1954 [1953]; = *Haplotrichella* G. Arnaud 1954 [1953]; = *Nematomyces* Faurel & Schotter 1966 [1965]; = *Torulina* Sacc. & D. Sacc. 1906; = *Torulopsis* Oudem. 1903 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 25 species, type: *G. chartarum* (Cooke) Guég., hyphomycetous, sexual morph unknown, saprobes, in soil, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Summerbell et al. (2011; revision, phylogeny), Whitton et al. (2012a; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Globoa Bat. & H. Maia 1962, *Dothideomycetes* genera *incertae sedis*, one species, type: *G. toddaliae* Bat. & H. Maia, asexual morph unknown, saprobes, terrestrial, Uganda, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Globobotrys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *G. sansevieriicola* (Crous & M.J. Wingf.) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Tanzania, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22220, CBS 138872.

Globoconidiopsis G.F. Sepúlveda, Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, one species, type: *G. cerradensis* G.F. Sepúlveda, Pereira-Carv. & Dianese, hyphomycetous, sexual morph unknown, superficial on leaf trichomes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of type: UB Mycol. Col. 9926, cultures and sequences are unavailable.

Globoconidium G.F. Sepúlveda, Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, one species, type: *G. cerradense* G.F. Sepúlveda, Pereira-Carv. & Dianese, hyphomycetous, sexual morph unknown, superficial on leaf trichomes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of type: UB Mycol. Col. 8387, cultures and sequences are unavailable.

Globonectria Etayo 2002, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *G. cochensis* Etayo, asexual morph unknown, lichenicolous, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), holotype of the type: COL Etayo 15859, sequences are unavailable.

Globosphaeria D. Hawksw. 1990, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *G. jamesii* D. Hawksw., lichenicolous, terrestrial, Australia (Tasmania), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: NSW Ll4339, sequences are unavailable.

Globulina Speg. 1889, *Dothideomycetes* genera *incertae sedis*, one species, type: *G. toddaliae* Bat. & H. Maia, asexual morph unknown, saprobes, terrestrial, Uganda, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Gloeandromyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, five species (est. spp. 5+), type: *G. streblae* (Peyr.) Thaxt., asexual morph unknown, biotrophic, hosts are *Streblidae* (*Diptera*: Hippoboscoidea), neotropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015b, 2017a, b; DNA, review, taxonomy), ribosomal sequence data available but not for the type.

Gloeodiscus Dennis 1961, *Dothideomycetes* genera *incertae sedis*, one species, type: *G. nigrorufus* (Berk.) Dennis, asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Ariyawansa et al. (2013b; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Gloeoheppia Gyeln. 1935, *Gloeoheppiaceae*, *Lichinales*, *Lichinomycetes*, five species, type: *G. turgida* (Ach.) Gyeln., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Gloeopeziza Zukal 1891, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, c. eight species, type: *G. rehmii* Zukal, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gloeosporidiella Petr. 1921, *Ascomycota* genera *incertae sedis*, one species, type: *G. ribis* (Lib.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gloeosporidina Petr. 1921, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *G. moravica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Gloeosporiella Cavara 1892, *Ascomycota* genera *incertae sedis*, one species, type: *G. rosicola* Cavara, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology),

Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gloeotinia M. Wilson, Noble & E.G. Gray 1954 (= *Endoconidium* Prill. & Delacr. *fide* Johnston et al. 2014b), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *G. temulenta* (Prill. & Delacr.) M. Wilson, Noble & E.G. Gray, asexual morph *Endoconidium*, saprobe, terrestrial, India, Canary Islands, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available for unidentified species.

Gloiosphaera Höhn. 1902 (= *Scopula* G. Arnaud 1952 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *G. globuligera* Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Glomerilla Norman 1869, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *G. subtilis* Norman, lichenized, terrestrial, Norway, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Glomerobolus Kohlm. & Volkm.-Kohlm. 1996, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *G. gelineus* Kohlm. & Volkm.-Kohlm., saprobes, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMS, Kohlmeyer 5555, cultures and sequences are available.

Glomerulophoron Frisch, Ertz & G. Thor 2015, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *G. mauritiae* Frisch, Ertz & G. Thor, lichenized, see Frisch et al. (2015; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Gloniella Sacc. 1883, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, twelve species, type: *G. sardoa* Sacc. & Traverso, asexual morph unknown, saprobes, terrestrial/aquatic, cosmopolitan, see Boehm et al. (2009a, b; overview of genus) Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Hysteriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Gloniopsis De Not. 1847, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, seven species, type: *G. decipiens* De Not., asexual morph coelomycetous (aposphaeria-like *fide* Lohman 1933a), saprobes, terrestrial, see Boehm et al. (2009a, b; overview of genus), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence data indicate this genus is polyphyletic.

Glonium Muhl. ex Fr. 1823 (= *Glonium* Muhl. 1813; = *Solenarium* Spreng. 1827 *fide* Species Fungorum 2017), *Gloniaceae*, *Mytilinidiales*, *Dothideomycetes*, c. 13 species, type: *G. stellatum* Muhl., asexual morph asteromella-like, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Gloniaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Glutinium Fr. 1849 (= *Malacodermis* Bubák & Kabát 1912 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *G. exasperans* Fr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Glutinoglossum Hustad, A.N. Mill, Dentinger & P.F. Cannon 2013, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, two species, type: *G. glutinosum* (Pers.) Hustad, A.N. Mill., Dentinger & P.F. Cannon, asexual morph unknown, from soil, terrestrial, worldwide, see Hustad et al. (2013; morphology, taxonomy, DNA, phylogeny), Kirk et al. (2013; genus accepted), holotype of the type: 910.261-767 (L 0110938 [Persoon Herb.], cultures and sequences are available: ANM 2231.

Glyphis Ach. 1814 (= *Glyphomyces* Cif. & Tomas. 1953; = *Gymnotrema* Nyl. 1858 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, seven species, type: *G. cicatricosa* Ach., lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Glyphium Nitschke ex F. Lehm. 1886, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, three species, type: *G. dolabriforme* (Wallr.) F. Lehm., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Boehm et al. (2015; phylogeny, taxonomy), cultures and sequences are available.

Glypholecia Nyl. 1853 (= *Glypholeciomyces* Cif. & Tomas. 1953; = *Laureriella* Hepp 1867 *fide* Species Fungorum 2017), *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, one species; type: *G. candidissima* Nyl., lichenized, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Glyphopeltis Brusse 1985, *Psoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *G. eburina* Brusse, lichenized, Mediterranean Europe, South Africa, Brazil,

see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Glyphopsis Aptroot 2014, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *G. aurantiodisca* Aptroot, lichenized, see Aptroot (2014; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Gnomonia Ces. & De Not. 1863 (= *Melanopelta* Kirschst. 1939; = *Rehmiella* G. Winter 1883; = *Rostrocoronophora* Munk 1953 *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, c. 70 species, type: *G. vulgaris* Ces. & De Not., asexual morph unknown, saprobes, terrestrial, Europe, see Mejía et al. (2008; DNA, phylogeny), Sogonov et al. (2008; new species, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available but lacking for the type.

Gnomoniella Sacc. 1881, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, c. 70 species, type: *G. tubaeformis* (Tode) Sacc., asexual morph unknown, saprobes, terrestrial, Europe, see Sogonov et al. (2008; DNA, phylogeny), Singh et al. (2009; new species, India), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available but lacking for the type.

Gnomoniopsis Berl. 1893, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, c. 20 species, type: *G. chamaemori* (Fr.) Berl., asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Sogonov et al. (2008; reinstated the genus), Lumbsch and Huhndorf (2010; outline), Walker et al. (2010; new species, revision), Visentin et al. (2012; new species, pathogens), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Tibpromma et al. (2017b; reference specimen),cultures and sequences are available.

Godronia Moug. & Lév. 1846 (= *Cenangiella* Lambotte 1887; = *Cenangium* trib. *Scleroderris* Fr. 1822; = *Crumenula* De Not. 1864; *Scleroderris* (Fr.) Bonord. 1851 = *Sphaeronaema* Fr. *fide* Johnston et al. 2014b; Species Fungorum 2017), *Godroniaceae*, *Helotiales*, *Leotiomycetes*, c. 30 species, type: *G. muehlenbeckii* Moug. & Lév., asexual morph unknown, saprobes, terrestrial, worldwide, see de Gruyter et al. (2009; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available but lacking for type.

Godroniopsis Diehl & E.K. Cash 1929 (= *Sphaeronaema* Fr., *fide* Johnston et al. 2014b), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *G. quernea* (Schwein.) Diehl & E.K. Cash, asexual morph ?*Sphaeronaema*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are unavailable.

Golovinomyces (U. Braun) Heluta 1988 (= *Euoidium* Y.L. Paul & J.N. Kapoor 1985; = *Erysiphe* sect. Golovinomyces U. Braun 1978 [1977] *fide* Rossman et al. 2016a; Species Fungorum 2017), *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, c. 63 species, type: *G. cichoracearum* (DC.) Heluta, asexual morphs hyphomycetous, biotrophic, obligate plant pathogens, terrestrial, worldwide, see Cunnington et al. (2010; phylogeny), Takamatsu et al. (2013a, b; phylogeny), Braun and Cook (2012; taxonomy), Rossman et al. (2016a; nomenclature), lectotype of type: G 00298360.

Gomphillus Nyl. 1855 (= *Baeopodium* Trevis. 1857; = *Mycetodium* A. Massal. 1856 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, six species, type: *G. calycioides* (Delise ex Duby) Nyl., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gonatobotrys Corda 1839 (see Species Fungorum 2017 for synonyms), *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, type: *G. simplex* Corda., hyphomycetous, sexual morph unknown, fungicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable, Index Fungorum (2017) listed Gonatobotrys as a synonym of *Melanospora* Corda.

Gonatobotryum Sacc. 1880 (= *Christiaster* Kuntze 1891; = *Gonatorhodis* Clem. & Shear 1931; = *Gonatorrhodiella* Thaxt. 1891; = *Thomiella* C.W. Dodge 1935 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, four species, type: *G. fuscum* (Sacc.) Sacc., hyphomycetous, sexual morph unknown, fungicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for *G. apiculatum* (unpublished) but lacking for type.

Gonatophragmium Deighton 1969, *Acrospermaceae*, *Acrospermales*, *Dothideomycetes*, 15 species, type: *G. mori* (Sawada) Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014d; new species, DNA), Berger et al. (2015; new species, lichenicolous, Austria), cultures and sequences are available.

Gonatorrhodum Corda 1839, *Ascomycota* genera *incertae sedis*, one species, type: *G. speciosum* Corda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gondwania Søchting, Frödén & Arup 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, four species, type: *G. cribrosa* (Hue) Søchting, Frödén & Arup, lichenized, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Goniopila Marvanová & Descals 1985, *Ascomycota* genera *incertae sedis*, one species, type: *G. monticola* (Dyko) Marvanová & Descals, hyphomycetous, sexual morph unknown, saprobes, aquatic, USA, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for type: CCM F-11686.

Goosia B. Song 2003, *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *G. melastomatis* B. Song, asexual morph unknown, parasitic, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), Dai et al. (2014c; morphology), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Goosiella Morgan-Jones, Kamal & R.K. Verma 1986, *Ascomycota* genera *incertae sedis*, one species, type: *G. helicospora* Morgan-Jones, Kamal & R.K. Verma, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Goosiomyces N.K. Rao & Manohar. 1989, *Ascomycota* genera *incertae sedis*, one species, type: *G. digitatus* N.K. Rao & Manohar., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Dubey and Neelima (2014; new species), cultures and sequences are unavailable.

Gordonomyces Crous & Marinc. 2011, *Pleosporales*, genera *incertae sedis*, *Dothideomycetes*, one species, type: *G. mucovaginatus* Crous & Marinc., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2011d; morphology, DNA), Wijayawardene et al. (2012, 2014c, 2016a, b, c; outline, morphology, phylogeny), holotype and ex-type strains of the type: PREM 59592, CMW 22212.

Gorgadesia Tav. 1964, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *G. mira* Tav., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gorgomyces M. Gönczöl & Révay 1985, *Leotiomycetes* genera *incertae sedis*, two species, type: *G. hungaricus* J. Gönczöl & Révay, hyphomycetous, sexual morph unknown, nematophagous, aquatic, Hungary, Spain, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Baschien et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), ex-type culture of the of the type: CCM F-12696.

Gorgoniceps (P. Karst.) P. Karst. 1871 (= *Peziza* sect. *Gorgoniceps* P. Karst. 1869 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *G. aridula* (P. Karst.) P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gossypiothallon Aptroot 2014, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *G. appendisporum* Aptroot, lichenized, see Aptroot (2014; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Govindua Bat. & H. Maia 1960, *Dothideomycetes*, genera *incertae sedis*, one species, type: *G. shoreae* Bat. & H. Maia, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Wu et al. (2011; transferred to *Asterinaceae*), Hyde et al. (2013) and Hongsanan et al. (2014c) did not accept as *Asterinaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Gowardia Halonen, Myllys, Velmala & Hyvärinen 2009, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *G. nigricans* (Ach.) Halonen, Myllys, Velmala & Hyvärinen, lichenized, see Myllys et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Gracilistilbella Seifert 2000, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *G. clavulata* (Mont.) Seifert, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Graddonia Dennis 1955, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *G. coracina* (Bres.) Dennis, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dermateaceae*), Hustad and Miller (2011; DNA, phylogeny), Raja et al. (2011a; DNA,

phylogeny), Kirk et al. (2013; genus accepted), cultures available for type: ILLS60491.

Graddonidiscus Raitv. & R. Galán 1992, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *G. coruscatus* (Graddon) Raitv. & R. Galán, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Grahamiella Spooner 1981, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *G. dryadis* (Nannf. ex L. Holm) Spooner, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Grallomyces F. Stevens 1918 (= *Ophiopodium* G. Arnaud 1954 [1953]; = *Phialetea* Bat. & Nascim. 1960 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *G. portoricensis* F. Stevens, hyphomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Grandibotrys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *G. pseudotheobromae* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Nepal, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22443, CBS 136170.

Grandigallia M.E. Barr, Hanlin, Cedeño, Parra & R. Hern. 1987, *Shiraiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *G. dictyospora* M.E. Barr, Hanlin, Cedeño, Parra & R. Hern., asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), Ariyawansa et al. (2013b; accepted as a genus in *Shiraiaceae*), Hyde et al. (2013; accepted as a genus in *Shiraiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Granulomanus de Hoog & Samson 1978, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *G. aranearum* (Petch) de Hoog & Samson, hyphomycetous, sexual morph unknown, parasitic on Arachnida, terrestrial, British Isles, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for *Gibellula leiopus*.

Granulopyrenis Aptroot 1991, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, six species, type: *G. antillensis* Aptroot, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Graphidastra (Redinger) G. Thor 1991 (= *Dirina* sect. Graphidastra Redinger 1936 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *G. multiformis* (Mont. & Bosch) G. Thor, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Graphiopsis Trail 1889, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *G. chlorocephala* (Fresen.) Trail, hyphomycetous, terrestrial, Asia, Europe, North America, New Zealand, see Braun et al. (2008; nomenclature), Crous et al. (2009d; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), neotype and ex-neotype strain of the type: HAL 1924 F; CBS 121523 = CPC 11969.

Graphiothecium Fuckel 1870 (= *Fresenia* Fuckel 1866 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, six species, type: *G. fresenii* Fuckel, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Graphis Adans. 1763 (see Species Fungorum 2017 for synonyms), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 500 species, type: *G. scripta* (L.) Ach., asexual morph unknown, lichenized, terrestrial, mostly tropical, see Lücking et al. (2008a, 2009, 2016b; key, Costa Rica, classification), Archer (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; taxonomy), Kirk et al. (2013; genus accepted), Barcenas Peña et al. (2014; key), Kraichak et al. (2015; taxonomy), sequences are available.

Graphium Corda 1837, *Graphiaceae*, *Microascales*, *Sordariomycetes*, three species, type: *G. penicillioides* Corda, hyphomycetous, sexual morph unknown, saprobes or from soil terrestrial, worldwide, see Cruywagen et al. (2010; new species, South Africa), Paciura et al. (2010b; new species, China), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Kolařík et al. (2015b; new species; Costa Rica), Wu et al. (2015; new species, China), Maharachchikumbura et al. (2015b, 2016b; outline), ex-type strain of the type: JCM 1049.

Graphostroma Piroz. 1974, *Graphostromataceae*, *Xylariales*, *Sordariomycetes*, one species, type: *G. platystoma* (Schwein.) Piroz., asexual morph hyphomycetous (nodulisporium-like), saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010;

outline), Kirk et al. (2013; genus accepted), Koukol et al. (2014; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures available for the type: AFTOL-ID 1249.

Graphyllium Clem. 1901, *Hysteriales* genera *incertae sedis*, eleven species, type: *G. chloës* Clem., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Diademaceae*), Hyde et al. (2013) did not accept as *Diademaceae*, Kirk et al. (2013; genus accepted), Almeida et al. (2014b; DNA, new species, phylogenetic analyses showed that *G. caracolinense* D.A.C. Almeida et al. belongs to *Hysteriales*), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are available only for *G. caracolinense*.

Greeneria Scribn. & Viala 1887 (= *Frankia* Brunch. 1886; = *Frankiella* Speschnew 1900 *fide* Species Fungorum 2017), *Diaporthales* genera *incertae sedis*, three species, type: *G. fuliginea* Scribn. & Viala, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy, phylogeny), Tangthirasunun et al. (2014a; DNA, phylogeny), cultures and sequence available for *G. saprophytica* (MFLUCC 12-0298 *fide* Tangthirasunun et al. 2014a, b).

Gregarithecium Kaz. Tanaka & K. Hiray. 2015, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *G. curvisporum* Kaz. Tanaka & K. Hiray., asexual morph unknown, saprobes, terrestrial, Japan, see Tanaka et al. (2015; morphology, phylogeny), holotype and ex-type of the type: HHUF 30134, CBS 139688.

Gregatothecium L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *G. humicola* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Papua New Guinea, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22445, CBS 205.96.

Gregorella Lumbsch 2005, *Arctomiaceae*, *Arctomiales*, *Lecanoromycetes*, one species, type: *G. humida* (Kullh.) Lumbsch, asexual morph coelomycetous, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Miądlikowska et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Gremmenia Korf 1962, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *G. pini-cembrae* (Rehm) Crous, asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Crous et al. (2014b; DNA, phylogeny), cultures and sequences are available.

Gremmeniella M. Morelet 1969 (= *Brunchorstia* Erikss 1891 *fide* Johnston et al. 2014b), *Godroniaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *G. abietina* (Lagerb.) M. Morelet, asexual morph *Brunchorstia*, pathogens, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Laflamme and Smerlis (2012; DNA, new species, Canada), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available.

Griggsia F. Stevens & Dalbey 1919, *Dothideomycetes* genera *incertae sedis*, one species, type: *G. cyathea* F. Stevens & Dalbey, asexual morph unknown, saprobes, terrestrial, West Indies, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014e; taxonomy), cultures and sequences are unavailable.

Grimmicola Döbbeler & Hertel 1983, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *G. parasiticus* Döbbeler & Hertel, asexual morph unknown, saprobes, terrestrial, Marion Island, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Griphosphaerioma Höhn. 1918 (= *Labridella* Brenckle 1929 *fide* Maharachchikumbura et al. 2015b; Wijayawardene et al. 2016b), *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, two species, type: *G. symphoricarpi* (Ellis & Everh.) Höhn. ex Petr., asexual morphs *Labridella*, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, nomenclature), Wijayawardene et al. (2016b; taxonomy, nomenclature), Rossman et al. (2016a) proposed to protect *Labridella* over *Griphosphaerioma*, cultures and sequences are unavailable.

Groenewaldozyma Kurtzman 2016, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, three species, type: *G. auringiensis* (Santa María) Kurtzman, saprophytic, worldwide, see Kurtzman (2016; taxonomy), cultures and sequences are available.

Groenhiella Jorg., E.B.G. Jones & S.T. Moss 1983, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *G. bivestia* Jørg. Koch, E.B.G. Jones & S.T. Moss, asexual morph unknown, marine, on wood often associated with sand, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline) cultures and sequences are unavailable.

Grosmannia Goid. 1936, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, one species, type: *G. penicillata* (Grosmann) Goid., holomorph, asexual morph hyphomycetous, associated with bark beetles, terrestrial, worldwide, see Masuya et al. (2009; new

species), Lumbsch and Huhndorf (2010; outline), Duong et al. (2012; new species, phylogeny), Linnakoski et al. (2012, 2016; new species, DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: CMW43738.

Groveolopsis Boedijn 1951 (= *Septoriopsis* Höhn. 1920 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, six species, type: *G. pandani* (Höhn.) Boedijn, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Grovesia Dennis 1960, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *G. pulchella* Dennis, asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Grovesiella M. Morelet 1969, *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, one species, type: *G. abieticola* (Zeller & Goodd.) M. Morelet & Gremmen, asexual morph unknown, saprobes, terrestrial, USA, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available for the type: ZT 91110.

Grovesinia M.N. Cline, J.L. Crane & S.D. Cline 1983 (= *Hinomyces* Narumi & Y. Harada 2006 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *G. pyramidalis* M.N. Cline, J.L. Crane & S.D. Cline, asexual morph *Hinomyces*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature).

Guanomyces M.C. González, Hanlin & Ulloa 2000, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *G. polythrix* M.C. González, Hanlin & Ulloa, asexual morph unknown, saprobes, terrestrial, Mexico, Trinidad, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available (see Gonzalez et al. 2000).

Gudelia Henssen 1995, *Gloeoheppiaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *G. mexicana* Henssen, lichenized, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Guedea Rambelli & Bartoli 1978, *Ascomycota* genera *incertae sedis*, six species, type: *G. sacra* Rambelli & Bartoli, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Guelichia Speg. 1886, *Ascomycota* genera *incertae sedis*, six species, type: *G. paradoxa* Speg., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012; outline, accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b) and Wijayawardene et al. (2014c) did not accept as a genus in *Tubeufiaceae*, cultures and sequences are unavailable.

Guestia G.J.D. Sm. & K.D. Hyde 2001, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *G. gonetrospora* G.J.D. Sm. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Guilliermondia Boud. 1904, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *G. saccoboloides* Boud., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Guttulispora Thambug., Qing Tian & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *G. crataegi* Qing Tian, Thambug., Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Thambugala et al. (2015b; morphology, phylogeny), holotype of type: MFLU 14–0584, ex-type strains of type: MFLUCC 13–0442.

Gyalecta Ach. 1808 (= *Gyalectomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Phialopsis* Körb. 1855; = *Secoliga* Norman 1853 [1852]; = *Volvaria* DC. 1805 *fide* Species Fungorum 2017), *Gyalectaceae*, *Ostropales*, *Lecanoromycetes*, 50 species, type: *G. cupularis* (Hedw.) Schaer., lichenized, terrestrial (corticolous, saxicolous, terricolous), mainly temperate, see Baloch et al. (2010, 2013; taxonomy), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; DNA), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA), Aptroot and Moon (2015; new species), Resl et al. (2015; DNA), Lücking et al. (2017a; classification), sequences are available but lacking for the type.

Gyalectaria Lumbsch, Kalb & Schmitt 2010, *Coccotremataceae*, *Pertusariales*, *Lecanoromycetes*, three species, type: *G. jamesii* (Kantvilas) I. Schmitt, Kalb & Lumbsch, lichenized, terrestrial (corticolous), Chile, New Guinea, North America, Tasmania, from lowland to subalpine, see Schmitt et al. (2010; taxonomy), Resl

et al. (2015; DNA), Lücking et al. (2017a; classification), sequences are available.

Gyalectidium Müll. Arg. 1881 (= *Gonothecis* Clem. 1909; = *Gonothecium* (Vain.) Clem. & Shear 1931; = *Lecidea* sect. Gonothecium Vain. 1890; = *Lopadiopsidomyces* Cif. & Tomas. 1953; = *Lopadiopsis* Vain. 1896; = *Tauromyces* Cavalc. & A.A. Silva 1972 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, 52 species, type: *G. filicinum* Müll. Arg., lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gyalidea Lettau ex Vězda [nom. cons.] 1966 (= *Aglaothecium* Groenh. 1962; = *Cappellettia* Tomas. & Cif. 1952 *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, 50 species, type: *G. lecideopsis* (A. Massal.) Lettau ex Vězda, lichenized, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gyalideopsis Vězda [nom. cons.] 1972, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, 95 species, type: *G. peruviana* G. Merr. ex Vězda, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gyalolechia A. Massal. 1852, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 30 species, type: *G. aurea* (Schaer.) A. Massal., lichenized, see Arup et al. (2013; taxonomy), Kondratyuk et al. (2014; taxonomy), Jaklitsch et al. (2016a; outline), Lücking et al. (2017a; classification), sequences are available.

Gymnascella Peck 1884 (= *Pseudoarachniotus* Kuehn 1957 *fide* Species Fungorum 2017), *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, 14 species, type: *G. aurantiaca* Peck, asexual morphs unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gymnoascoideus G.F. Orr, K. Roy & G.R. Ghosh 1977, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *G. petalosporus* G.F. Orr, K. Roy & G.R. Ghosh, asexual morphs unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gymnoascus Baran. 1872 (= *Macronodus* G.F. Orr 1977; = *Tripedotrichum* G.F. Orr & Kuehn 1964 *fide* Species Fungorum 2017), *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, eight species, type: *G. reessii* Baran., asexual morphs unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gymnoderma Nyl. 1860 (= *Gymnodermatomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *G. coccocarpum* Nyl., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gymnographopsis C.W. Dodge 1967, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *G. chilena* C.W. Dodge, lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rivas Plata et al. (2012a; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Gymnohydnotrya B.C. Zhang & Minter 1989, *Discinaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *G. australiana* B.C. Zhang & Minter, asexual morphs unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Gymnostellatospora Udagawa, Uchiy. & Kamiya 1993, *Myxotrichaceae*, *Leotiomycetes*, families *incertae sedis*, two species, type: *G. japonica* Udagawa, Uchiy. & Kamiya, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype of the type: BF 24290, cultures available for type: UAMH 9239 (*fide* Rice and Currah 2006).

Gymnoxyphium Cif., Bat. & I.J. Araújo 1963, *Ascomycota* genera *incertae sedis*, six species, type: *G. malum* Bat., Nascim. & Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gynonectria Döbbeler 2012, *Hypocreales* genera *incertae sedis*, six species, type: *G. intraspora* Döbbeler, asexual morph unknown, saprobes, terrestrial, South America, see Döbbeler (2012; outline), cultures and sequences are unavailable.

Gyoerffyella Kol 1928 (= *Ingoldia* R.H. Petersen 1962 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, nine species, type: *G. tatrica* Kol, hyphomycetous, sexual morph unknown, saprobes, pathogens, saprobes, aquatic, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Baschien et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures unavailable for the type, ex-type strains available for *G. entomobryoides* (CBS268.63 *fide* Baschien et al. 2013), *G. tricapillata* (CBS 451.64 *fide* Baschien et al. 2013).

Gypsoplaca Timdal 1990, *Gypsoplacaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *G. macrophylla* (Zahlbr.) Timdal, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Gyrocollema Vain. 1929 (= *Ginzbergerella* Zahlbr. 1931 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, two species, type: *G. scyphuliferum* Vain., with ascomata, lichenized (Nostoc), terrestrial (saxicolous), North and Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Gyrographa Ertz & Tehler 2015, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *G. gyrocarpa* (Flot.) Ertz & Tehler, sexual morph with knot-like or clustered-gyrose to lirelliform ascomata, asexual morph coelomycetous, lichenized, terrestrial, worldwide, see Ertz et al. (2015b, c; taxonomy, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Gyromitra Fr. 1849 (see Species Fungorum 2017 for synonyms), *Discinaceae*, *Pezizales*, *Pezizomycetes*, 20 species, type: *G. esculenta* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Methven et al. (2013; DNA, phylogeny), cultures available for the type: AFTOL-ID 5017.

Gyronactis Ertz & Tehler 2015, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *G. asiatica* Ertz & Tehler, sexual morph with apothecioid ascomata, asexual morph coelomycetous, lichenized, terrestrial, tropical, see Ertz et al. (2015b, c; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Gyrophthorus Hafellner & Sancho 1990, *Ascomycota* genera *incertae sedis*, two species, type: *G. perforans* Hafellner & Sancho, asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gyrostroma Naumov 1914 (= *Kaskaskia* Born & J.L. Crane 1972 *fide* Species Fungorum 2017), *Diaporthales* genera *incertae sedis*, one species, type: *G. sinuosum* Naumov, sexual morph unknown, saprobes, terrestrial, Europe, see Hirooka et al. (2012; morphology, accepted as a genus in *Diaporthales*, genera *incertae sedis*), Wijayawardene et al. (2012; accepted as a genus in *Hypocreales*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Diaporthales*, genera *incertae sedis*), cultures and sequences are unavailable for the type: thus *Gyrostroma s. str.* uncertain.

Gyrothrix Corda 1842 (= *Campsotrichum* sect. *Gyrothrix* Corda 1839; = *Peglionia* Goid. 1937 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, c. 22 species, type: *G. podosperma* (Corda) Rabenh, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Rambelli (2011; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Gyrotrema Frisch 2006, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *G. sinuosum* (Sipman) Frisch, with ascomata, lichenized (green algae), terrestrial (corticolous), Central and South America see Rivas Plata et al. (2008; outline), Kalb (2009; outline), Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2011; outline); Cáceres et al. (2014; DNA), Kraichak et al. (2014; DNA), Lücking et al. (2017a; classification), sequences are available but lacking for type.

Hadronema Syd. & P. Syd. 1909, *Ascomycota* genera *incertae sedis*, four species, type: *H. orbiculare* Syd. & P. Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, China, UK see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hadrospora Boise 1989, *Trematosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. fallax* (Mouton) Boise, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phaeosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; accepted as a genus in *Trematosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hadrosporium Syd. 1938, *Ascomycota* genera *incertae sedis*, two species, type: *H. fraserianum* Syd., hyphomycetous, saprobes, terrestrial, Australia, New Zealand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hadrotrichum Fuckel 1865 (= *Microbasidium* Bubák & Ranoj. 1914 *fide* Species Fungorum 2017), *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *H. phragmitis* Fuckel, hyphomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline),

cultures and sequences are available for *H. pyrenaicum* (YMJ 320 fide Hsieh et al. 2005).

Haematomma A. Massal. 1852 (= *Lepadolemma* Trevis. *fide* Species Fungorum 2017), *Haematommataceae*, *Lecanorales*, *Lecanoromycetes*, c. 40 species, type: *H. vulgare* A. Massal., with ascomata, lichenized (*Pseudotreobuxia*), terrestrial (corticolous, lignicolous or saxicolous), cosmopolitan, but most diverse in the tropics, see Brodo et al. (2008; outline and chemistry), Ekman et al. (2008; DNA), Kalb et al. (2008; DNA), Lumbsch et al. (2008; DNA), Stocker-Wörgötter et al. (2009; chemistry, mycobionts), Lumbsch and Huhndorf (2010; outline), Miądlikowska et al. (2014a; DNA), Lücking et al. (2017a; classification), sequences are available but lacking for the type.

Haematomyxa Sacc. 1884, *Ascomycota* genera *incertae sedis*, two species, type: *H. vinosa* (Cooke & Ellis) Sacc., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hafellia Kalb, H. Mayrhofer & Scheid. 1986, *Physciaceae*, *Teloschistales*, *Lecanoromycetes*, 22 species, type: *H. leptoclinoides* (Nyl.) Scheid. & H. Mayrhofer, with ascomata, lichenized, (green algae), terrestrial (corticolous, lignicolous, rare saxicolous), tropical, subtropical and temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2015f; new species), sequences available but lacking for the type species.

Hagleromyces Sousa, Morais, Lachance & Rosa 2014, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *H. auroranensis* Sousa, asexual reproduction by multilateral budding, saprophytic, from water tanks (phytotelmata) of *Bromelia karatas* in the cerrado ecosystem of Aurora do Tocantins, Brazil, see Sousa et al. (2014; taxonomy), cultures and sequences are available.

Haiyanga K.L. Pang & E.B.G. Jones 2008, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *H. salina* (Meyers) K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, worldwide, see Pang et al. (2008b; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Halazoon Abdel-Aziz, Abdel-Wahab & Nagah. 2010, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, two species, type: *H. melhae* Abdel-Aziz, Abdel-Wahab & Nagah., coelomycetous, sexual morph unknown, saprobes, marine, worldwide, see Abdel-Wahab et al. (2010; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type of the type: IMI 397964, MF819.

Halbania Racib. 1889, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, three species, type: *H. cyathearum* Racib., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, keys), Wijayawardene et al. (2014c; outline), placement in *Asterinaceae* supported by morphology, holotype of type: ZT Myc 1488, cultures and sequences are unavailable.

Halecania M. Mayrhofer 1987, *Catillariaceae*, *Lecanorales*, *Lecanoromycetes*, 22 species, type: *H. alpivaga* (Th. Fr.) M. Mayrhofer, with ascomata, lichenized (green algae), terrestrial (saxicolous, corticolous, lichenicolous or growing on mosses and plant debris), cosmopolitan, see Ekman et al. (2008; DNA), van den Boom (2009; new species), Andreev (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lendemer and Hodkinson (2013; taxonomy), Aptroot and Moon (2015; new species), Kondratyuk (2015; new species), Lücking et al. (2017a; classification), sequences are available for type: AY756368 (LSU).

Halegrapha Rivas Plata & Lücking 2011, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, eight species, type: *H. chimaera* Rivas Plata & Lücking, asexual morph unknown, lichenized, terrestrial, tropical, Lücking et al. (2011; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Halenospora E.B.G. Jones 2009, *Leotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *H. varia* (Anastasiou) E.B.G. Jones, hyphomycetous, sexual morph unknown, saprobe, marine, worldwide, see Jones et al. (2009b, 2015; outline, phylogeny), Abdel-Wahab et al. (2010; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Haleomyces D. Hawksw. & Essl. 1993, ?*Verrucariacae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *H. oropogonicola* D. Hawksw. & Essl., lichenicolous, terrestrial, Mexico, asexual morph unknown, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; outline), holotype of type: K(M)-IMI 3551875.

Haligena Kohlm. 1961, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *H. elaterophora* Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al.

(2015b, 2016b; outline), cultures and sequences are available, holotype of type: IMI 297765.

Halodiatrype Dayarathne & K.D. Hyde 2016, *Diatrypaceae*, *Xylariales, Sordariomycetes*, three species, type: *H. salinicola* Dayarathne & K.D. Hyde, saprobes, found on decaying wood at mangrove stands, Thailand, see Dayarathne et al. (2016b; taxonomy, phylogeny), holotype of type: MFLU 15-0179.

Halographis Kohlm. & Volkm.-Kohlm. 1988, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *H. runica* Kohlm. & Volkm.-Kohlm., endolithic lichenoid from corals and snails, marine, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Lücking et al. (2017a; classification), sequences unavailable.

Haloguignardia Cribb & J. W. Cribb 1956, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, five species, type: *H. decidua* Cribb & J.W. Cribb, asexual morph unknown, endophytes or parasites, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Halojulella Suetrong, K.D. Hyde & E.B.G. Jones 2013, *Halojulellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. avicenniae* (Borse) Suetrong, K.D. Hyde & E.B.G. Jones, asexual morph coelomycetous, saprobes, on woody substrates in mangrove habitats, worldwide, sequence data available, see Ariyawansa et al. (2013a, 2014a, c; phylogeny, morphology), Hyde et al. (2013; phylogeny, morphology, outline), Abdel-Wahab et al. (2014; diversity), Gnavi et al. (2014, phylogeny), Wijayawardene et al. (2014c; outline), Jones et al. (2015; classification, marine), Liu et al. (2015a; phylogeny), holotype of type: IMI 304217, cultures and sequences are available.

Halokirschsteiniothelia Boonmee & K.D. Hyde 2012, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. maritima* (Linder) Boonmee & K.D. Hyde, asexual morph unknown, saprobes, marine, USA, see Boonmee et al. (2012; taxonomy, phylogeny; treated as a genus in *Mytilinidiaceae*), Hyde et al. (2013; not accepted as a genus in *Mytilinidiaceae*), Wijayawardene et al. (2014c; listed as *Dothideomycetes* genera *incertae sedis*), cultures available for the type: CBS 221.60.

Halomassarina (Kohlm. & Volkm.-Kohlm.) Suetrong, Sakay., E.B.G. Jones, Kohlm., Volkm.-Kohlm. & C.L. Schoch 2009, *Trematosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. thalassiae* (Kohlm. & Volkm.-Kohlm.) Suetrong, Sakay., E.B.G. Jones, Kohlm., Volkm.-Kohlm. & C.L. Schoch, asexual morph unknown, saprobes, marine, worldwide, see Suetrong et al. (2009; phylogeny, morphology), Schoch et al. (2009; phylogeny), Alias et al. (2010; diversity), Lumbsch and Huhndorf (2010; outline), Zainuddin et al. (2010; antimicrobial activities), Sakayaroj et al. (2011b; diversity), Boonmee et al. (2012; phylogeny), Dai et al. (2012; phylogeny), Lee et al. (2012; checklist), Jones et al. (2012; phylogeny), Zhang et al. (2012e; morphology, phylogeny), Borse et al. (2013; checklist), Hyde et al. (2013; morphology, phylogeny), Ahmed et al. (2014a; phylogeny), Gnavi et al. (2014; phylogeny), Shearer et al. (2014; phylogeny), Wijayawardene et al. (2014c; outline), Singtripop et al. (2015; phylogeny), Sarma (2015; key), holotype and ex-isotype strain of type: J.K. 4804a, J.K.4804b.

Halonectria E.B.G. Jones 1965, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *H. milfordensis* E.B.G. Jones, asexual morph unknown, marine, on wood, mostly temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Haloplaca Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *H. britannica* (R. Sant.) Arup, Frödén & Søchting, lichenized (with green algae), saxicolous, corticolous, lignicolous, lichenicolous, terrestrial, United Kingdom, Greece, Morocco, Turkey, see Vondrák et al. (2012; DNA as *Caloplaca suaesae s. l.*), Arup et al. (2013, DNA), Lücking et al. (2017a; classification), sequences are available for all species KC179292 (ITS) (*fide* Arup et al. 2013).

Halorosellinia Whalley, E.B.G. Jones, K.D. Hyde & Laessøe, 2000, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *H. oceanica* (S. Schatz) Whalley, E.B.G. Jones, K.D. Hyde & Læssøe, asexual morph unknown, tropical, on wood especially mangrove substrates, sequence data for both species, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; morphology, phylogeny), Jones et al. (2015; outline), cultures and sequences are available.

Halosarpheia Kohlm. & E. Kohlm. 1977, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, *polyphyletic*, four species, type: *H. fibrosa* Kohlm. & E. Kohlm., asexual morph unknown, marine, freshwater, saprobes on herbaceous material, wood, widespread, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jones et al. (2015; outline), holotype of the type: NY J.K. 3726a, cultures available for type: AFTOL-ID 409, CBS 197.60.

Halosphaeria Linder 1944, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, c. 20 species, type:

H. appendiculata Linder, asexual morph unknown, saprobes, marine, temperate, subtropics, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), sequence are available.

Halosphaeriopsis T.W. Johnson 1958 (= *Culcitalna* Meyers & R.T. Moore *fide* Maharachchikumbura et al. 2016b), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *H. mediosetigera* (Cribb & J.W. Cribb) T.W. Johnson, asexual morph *Trichocladium acharospora*, saprobes, marine, temperate, subtropics, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), sequence are available.

Halotthia Kohlm. 1963, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. posidoniae* (Durieu & Mont.) Kohlm., asexual morph coelomycetous, saprobes, marine habitats, Mediterranean, see Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b; classification), Zhang et al. (2012e, 2013d; morphology, phylogeny), Hyde et al. (2013; morphology, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Jones et al. (2015; classification).

Halysiomyces E.G. Simmons 1981, *Ascomycota* genera *incertae sedis*, one species, type: *H. saxatilis* E.G. Simmons, hyphomycetous, epiphyte, free living, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hamatocanthoscypha Svrček 1977 (= *Debaryoscyphus* Arendh. & R. Sharma 1986; = *Uncinia* Velen. 1934; = *Unciniella* K. Holm & L. Holm 1977 *fide* Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *H. laricionis* (Velen.) Svrček, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), Jaklitsch et al. (2016a; classification), cultures available for the type: TNS-F13530.

Hamigera Stolk & Samson 1971 (= *Merimbla* Pitt 1979 *fide* Houbraken and Samson 2011), *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, two species, type: *H. avellanea* Stolk & Samson, asexual morph formerly named in *Merimbla*, saprobes, terrestrial, temperate, see Peterson et al. (2010; phylogeny), Houbraken and Samson (2011; phylogeny, nomenclature), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Hanliniomyces Raja & Shearer 2008, *Sordariomycetes* genera *incertae sedis*, one species, type: *H. hyaloapicalis* Raja & Shearer, asexual morph unknown, freshwater, northern and southern Florida, see Raja and Shearer (2008; taxonomy), Raja et al. (2009b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: R037-3, ILL 40116, cultures and sequences are unavailable.

Hanseniaspora Zikes 1912 (= *Kloeckera* Janke 1928; see Species Fungorum 2017 for additional synonyms), *Saccharomycodaceae*, *Saccharomycetales*, *Saccharomycetes*, 15 species, type: *H. valbyensis* Klöcker, asexual reproduction is by bipolar budding on a broad base (bud-fission), saprophytic, in soil, fresh water, sea water, rotting plants, fruit, fruit juices, fruit flies, grape must, beer, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Hansfordia S. Hughes 1951, *Ascomycota* genera *incertae sedis*, seven species, type: *H. ovalispora* S. Hughes, hyphomycetous, saprobes, terrestrial, marine, China, UK, Spain, and India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hansfordiella S. Hughes 1951, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, eight species, type: *H. asterinearum* S. Hughes, hyphomycetous, saprobes, on fungi, terrestrial, wide spread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hansfordiellopsis Deighton 1960, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. aburiensis* Deighton, hyphomycetous, sexual morph unknown, saprobes, lichenicolous, terrestrial, Africa, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: IMI 4778, cultures and sequences are unavailable.

Hansfordiopeltis Bat. & C.A.A. Costa 1956, *Ascomycota* genera *incertae sedis*, five species, type: *H. congoensis* Bat. & C.A.A. Costa, coelomycetous, saprobes, terrestrial, Congo and Brazil, see Wijayawardene et al. (2012, 2017), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hansfordiopeltopsis M.L. Farr 1986, *Ascomycota* genera *incertae sedis*, one species, type: *H. amazonensis* M.L. Farr, coelomycetous, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hansfordiopsis Bat. 1959, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. phaeospora* (Hansf.) Bat., asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline,

accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013; did not accept as a genus *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, *Dothideomycetes* genera *incertae sedis*), holotype of the type: PDD 6788 (as *Microthyriella phaeospora* Hansf.), cultures and sequences are unavailable.

Hapalocystis Auersw. ex Fuckel 1863, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *H. berkeleyi* Auersw. ex Fuckel, asexual morphs coelomycetous (phoma-like), saprobes, terrestrial, Europe, North America, see de Silva et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Liu et al. (2015a; DNA, phylogeny), Maharachchikumbura et al. (2016b; outline, phylogeny), Senanayake et al. (2017, placement), cultures available for the type: AR 3851.

Hapalosphaeria Syd. 1908, *Ascomycota* genera *incertae sedis*, one species, type: *H. deformans* (Syd.) Syd., coelomycetous, pathogens, terrestrial, Germany, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Haplariopsis Oudem. 1903, *Ascomycota* genera *incertae sedis*, two species, type: *H. fagicola* Oudem., hyphomycetous, saprobes, terrestrial, India, Holland, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Haplobasidion Erikss. 1889, *Ascomycota* genera *incertae sedis*, three species, type: *H. thalictri* Erikss., hyphomycetous, saprobes, pathogens, terrestrial, Sweden, Asia, Malaysia, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Haplodina Zahlbr. 1930, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, three species, need typification, lichenized, terrestrial (corticolous, saxicolous), China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Haplographium Berk. & Broome 1859, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, 15 species, type: *H. delicatum* Berk. & Broome, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for type species FMR 11585, TNS-F17834.

Haplolepis Syd. 1925, *Ascomycota* genera *incertae sedis*, three species, type: *H. polyadelpha* Syd., coelomycetous, saprobes, terrestrial, Sri Lanka, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Haploloma Trevis. 1857, *Lecanoromycetes* genus *incertae sedis*, one species, type: *H. fraudulentum* Trevis., lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not accept), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Haplomyces Thaxt. 1893, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *H. californicus* Thaxt., asexual morph unknown, biotrophic, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species, Ecuador), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Haplopeltheca Bat., J.L. Bezerra & Cavalc. 1963 (= *Phaeostomiopeltis* Bat. & Cavalc. 1963 *fide* Species Fungorum 2017), *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *H. hyleensis* Bat., J.L. Bezerra & Cavalc., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Haplophyse Theiss. 1916, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, ten species, type: *H. oahuensis* Theiss., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hapsidascus Kohlm. & Volkm.-Kohlm. 1991, *Sordariomycetes* genera *incertae sedis*, one species, type: *H. hadrus* Kohlm. & Volkm.-Kohlm., asexual morph unknown, marine, on mangrove wood and salt marsh sedge, tropical, see Jones et al. (2009b, 2015; marine, outline), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Hapsidospora Malloch & Cain 1970, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *H. irregularis* Malloch & Cain, asexual morph hyphomycetous (acremonium-like), saprobes, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: ATCC 22087.

Haptocara Drechsler 1975, *Ascomycota* genera *incertae sedis*, one species, type: *H. latirostrum* Drechsler, hyphomycetous, saprobes, insect-trapping, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Haptospora G.L. Barron 1991, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *H. appendiculata* G.L. Barron, hyphomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, New Zealand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Haradamyces Masuya, Kusunoki, Kosaka & Aikawa 2009, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *H. foliicola* Masuya, Kusunoki, Kosaka & Aikawa, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: TFM FPH7930, cultures available for the type: MAFF 411026.

Haraea Sacc. & P. Syd. 1913, *Ascomycota* genera *incertae sedis*, one species, type: *H. japonica* Sacc. & P. Syd., asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type of the type: DAOM 167533, MAFF 411026.

Harknessia Cooke 1881 (= *Caudosporella* Höhn. 1914; = *Mastigonetron* Kleb. 1914 *fide* Species Fungorum 2017), *Harknessiaceae*, *Diaporthales*, *Sordariomycetes*, c. 50 species, type: *H. eucalypti* Cooke, holomorph with wuestneia-like sexual morphs, pathogens, saprobes, terrestrial, worldwide, have sequence data, see Crous et al. (2012f; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Wijayawardene et al. (2012, 2016b, 2017; morphology, phylogeny), Rossman et al. (2016a; new combination), cultures and sequences are available.

Harknessiella Sacc. 1889, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. purpurea* (W. Phillips & Harkn.) Sacc., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Harmoniella V.N. Boriss. 1981, *Ascomycota* genera *incertae sedis*, two species, type: *H. chrysocephalus* V.N. Boriss, hyphomycetous, saprobes, terrestrial, Ukraine, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Madrid et al. (2016; new species), cultures and sequences are unavailable.

Harpidium Körb. 1855, *Harpidiaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *H. rutilans* Körb., with ascomata and conidia, lichenized (with green algae), terrestrial (saxicolous), Eurasian mountains, North America, South Africa, see Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2011; new species), Kirk et al. (2013; genus accepted), Lücking et al. (2017b; classification), sequences are available.

Harpographium Sacc. 1880, *Ascomycota* genera *incertae sedis*, five species, type: *H. fasciculatum* Sacc., hyphomycetous, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Harposporium Lohde 1874 (= *Podocrella* Seaver 1928; = *Atricordyceps* Samuels 1983; = *Polyrhina* Sorokīn 1876 *fide* Quandt et al. 2014; Maharachchikumbura et al. 2015b), *Ophiocordycipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *H. anguillulae* Lohde, hyphomycetous, sexual morph unknown, parasitic on nematodes, terrestrial, temperate, see Kuo et al. (2008; taxonomy, DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015a, b; outline, phylogeny), Spatafora et al. (2015; new species), cultures available for the type: ARSEF 5593.

Harpostroma Höhn. 1928, *Ascomycota* genera *incertae sedis*, one species, type: *H. notha* (Sacc.) Höhn., coelomycetous, sexual morph unknown, on cheese and fungi, terrestrial, Europe, North America, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Valsaceae*), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Harzia Costantin 1888 (= *Chlorospora* Speg. 1891; = *Eidamia* Lindau 1904 [1907] *fide* Species Fungorum 2017), *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *H. acremonioides* (Harz) Costantin, hyphomycetous, sexual morph unknown, saprobes, foliicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2013b; new species, DNA), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015a, b; outline, phylogeny), ex-type cultures available for *H. cameroonensis* Crous & Jol. Roux (CPC 22065, 22066 = CBS 136420).

Hassea Zahlbr. 1902, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. bacillosa* (Nyl.) Zahlbr., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Havispora K. L. Pang & Vrijmoed 2008, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *H. longyearbyenensis* K.L. Pang & Vrijmoed, asexual morph unknown, saprobes, marine, Arctic, see Pang et al. (2008a, 2011a; taxonomy), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: BBH 18329, cultures and sequences are available.

Hawksworthiana U. Braun 1988, *Ascomycota* genera *incertae sedis*, one species, type: *H. peltigericola* (D. Hawksw.) U. Braun, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, UK, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hazslinszkya Körb. 1861, *Asterinales* genera *incertae sedis*, *Dothideomycetes*, four species, type: *H. gibberulosa* (Ach.) Körb., saprobes, Europe, Asia, see Ertz and Diederich (2015; taxonomy, phylogeny), needs further studies to characterize the genus and establish its taxonomic status, sequences are available.

Hegermila Raitv. 1995, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *H. andina* (Pat.) Raitv., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Heimiodora Nicot 1960, *Ascomycota* genera *incertae sedis*, one species, type: *H. verticillata* Nicot, hyphomycetous, saprobes, terrestrial, Thailand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Heiomasia Nelsen, Lücking & Rivas Plata 2010, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *H. sipmanii* (Aptroot, Lücking & Rivas Plata) Nelsen, Lücking & Rivas Plata, lichenized, see Nelsen et al. (2010; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Heleiosa Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1996, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *H. barbatula* Kohlm., Volkm.-Kohlm. & O.E. Erikss., asexual morph unknown, tropical, marine on maritime sedge, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Jones et al. (2015; outline), cultures and sequences are unavailable.

Helensiella (R.F. Castañeda, Heredia & R.M. Arias) Minter, R.F. Castañeda & Heredia 2015 (= *Digitella* R.F. Castañeda, Heredia & R.M. Arias 2013 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *H. rigidophora* (R.F. Castañeda, Heredia & R.M. Arias) Minter, R.F. Castañeda & Heredia, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Mexico, see Index Fungorum (2017), holotype: XAL CB1692, cultures and sequences are unavailable, compare with *Ceratosporella* and *Dendryphion*.

Heleococcum C.A. Jørg. 1922, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *H. aurantiacum* C.A. Jørg., isolated from soil, marine or freshwater, Asia and Europe see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), ex-type of the type: CBS 201.35, slides of holotype of the type: C, NY (few remaining ascomata were broken).

Helhonia B. Sutton 1980 (= *Ceuthosporella* Höhn. 1929; = *Septochora* Höhn. 1917 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *H. rhamnigena* (Fautrey) B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence are unavailable.

Heliastrum Petr. 1931, *Sordariomycetes* genera *incertae sedis*, one species, type: *H. concinnum* Petr., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Helicangiospora Boonmee, Bhat & K.D. Hyde 2014, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, type: *H. lignicola* Boonmee, Bhat & K.D. Hyde, asexual morph hyphomycetous, saprobes, terrestrial, temperate, see Boonmee et al. (2014b; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), holotype and ex-type cultures of the type: MFLU11–0137, MFLUCC 11–0378 = BCC 52029 = ICMP 20069.

Helicascus Kohlm. 1969, *Morosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *H. kanaloanus* Kohlm., asexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Amnuaykanjanasin et al. (2009; DNA), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Zhang et al. (2013a, 2014c; new species, phylogeny), Wijayawardene et al. (2014c; outline), Luo et al. (2016c; new species), cultures available for the type: F1R2B2 (*fide* Amnuaykanjanasin et al. 2009).

Helicobolomyces Matzer 1995, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *H. lichenicola* Matzer, with conidiomata, lichenized (with green algae) or lichenicolous, terrestrial, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helicocentralis Sri-indr., Chuaseehar., Boonyuen, K. Yamag., Suetrong & C.K.M. Tsui 2015, *Leotiomycetes* genera *incertae sedis*, one species, type: *H. hyalina* Sri-indr., Chuaseehar., Boonyuen, K. Yamag., Suetrong & C.K.M. Tsui, sexual morph unknown, saprobes, freshwater, Thailand, see Sri-indrasutdhi et al. (2015; morphology, phylogeny), cultures and sequences are available, holotype of type: BBH27889.

Helicodendron Peyronel 1918 (= *Belospora* Clem. 1909; *Ciboriella* Seaver 1951; *Hymenoscypha* (Fr.) W. Phillips 1887; *Lambertellinia* Korf & Lizoň 1994; = *Peziza* trib. *Hymenoscypha* Fr. 1822; *Poculopsis* Kirschst. 1935; *Septatium* Velen. 1934 *fide* Jaklitsch et al. 2016; Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *H. paradoxum* Peyr., hyphomycetous, sexual morph unknown, saprobes, aero-aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Chuaseeharonnachai et al. (2013; diversity, Thailand), Kirk et al. (2013; genus accepted), Panzer et al. (2015; DNA, phylogeny), Sri-indrasutdhi et al. (2015; DNA, phylogeny), cultures available for the type: KF767.

Helicodochium S. Monteiro, R.F. Castañeda, A.C. Cruz & Gusmão 2014, *Ascomycota* genera *incertae sedis*, one species, type: *H. amazonicum* J.S. Monteiro, R.F. Castañeda, A.C. Cruz & Gusmão, hyphomycetous, sexual morph unknown, lignicolous, terrestrial, Brazil, see Monteiro et al. (2014b; taxonomy), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Helicofilia Matsush. 1983, *Ascomycota* genera *incertae sedis*, one species, type: *H. madrasensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, UK, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: MFC-11630, cultures and sequences are unavailable.

Helicogermslita Lodha & D. Hawksw. 1983, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *H. celastri* (S.-V. Kale & S.V.S. Kale) Lodha & D. Hawksw., asexual morphs unknown, on twigs, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013; genus accepted), Jaklitsch et al. (2016a; position), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: HCIO 29374.

Helicogonium W.L. White 1942 (= *Myriogonium* Cain 1948 *fide* Jaklitsch et al. 2016a), *Helicogoniaceae*, *Phacidiales*, *Leotiomycetes*, 19 species, type: *H. jacksonii* W.L. White, asexual reproduction is present or absent, and when present, produce phialides directly on the hyphae, or form small phialide-bearing penicilli, mycoparasitic, Europe, North America, see Baral and Kutorga (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Helicogoosia Hol.-Jech. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *H. paradoxa* Hol.-Jech., hyphomycetous, saprobes, terrestrial, Czechoslovakia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helicoma Corda 1837 (= *Helicocoryne* Corda 1854; = *Helicopsis* P. Karst. 1889; = *Lituaria* Riess 1853 fide Species Fungorum 2017), *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, type: *H. muelleri* Corda, hyphomycetous, saprobes, terrestrial, worldwide, see Boonmee et al. (2011, 2014b; taxonomy, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), available cultures for the type: CBS 964.69.

Helicomyces Link 1809, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, c. 15, type: *H. roseus* Link, hyphomycetous, saprobes, aero-aquatic, worldwide, see Boonmee et al. (2011, 2014b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Wijayawardene et al. (2014c; outline), Luo et al. (2017, sexual morph), available cultures for the type: AFTOL-ID 1613, CBS 283.51.

Helicoön Morgan 1892, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, c. 20 species, type: *H. sessile* Morgan, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Helicorhoidion S. Hughes 1958, *Ascomycota* genera *incertae sedis*, six species, type: *H. botryoideum* (Cooke) S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, Asia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helicosingula P.S. van Wyk, Marasas, Baard & Knox-Dav. 1985, *Ascomycota* genera *incertae sedis*, one species, type: *H. leucadendri* P.S. van Wyk, Marasas, Baard & Knox-Dav., hyphomycetous, pathogen, terrestrial, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helicosporium Nees 1816 (= *Helicotrichum* Nees & T. Nees 1818 *fide* Species Fungorum 2017), *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, c. 15, type: *H. vegetum* Nees, hyphomycetous, saprobes, terrestrial, worldwide, see

Cruz et al. (2009; new species, Brazil), Dharkar et al. (2010; new species, India), Boonmee et al. (2011, 2014b; taxonomy, phylogeny), Seifert et al. (2011; morphology), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Brahamanage et al. (2017, new species, phylogeny), available cultures for the type: BCC 3332.

Helicothyrium I. Hino & Katum. 1961, *Ascomycota* genera *incertae sedis*, one species, type: *H. ryukyuense* I. Hino & Katum., coelomycetous, pathogen, Japan, see Wijayawardene et al. (2012; 2017, outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helicoubisia Lunghini & Rambelli 1979, *Ascomycota* genera *incertae sedis*, one species, type: *H. coronata* Lunghini & Rambelli, hyphomycetous, saprobe, terrestrial, Ivory Coast, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Heliocephala V. Rao, K.A. Reddy & de Hoog 1984 (= *Holubovaniella* R.F. Castañeda 1985 *fide* Heredia et al. 2011), *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, seven species, type: *H. proliferans* V. Rao, K.A. Reddy & de Hoog, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Heredia et al. (2011; genus revised), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Mel'nik et al. (2013b; new species), cultures and sequences are available, compare with *Holubovaniella*, *Gonatobotrys* and *Uncispora*.

Heliscella Marvanová 1980, *Ascomycota* genera *incertae sedis*, two species, type: *H. stellata* (Ingold & V.J. Cox) Marvanová, hyphomycetous, saprobes, terrestrial, former Czechoslovakia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Heliscina Marvanová 1980, *Ascomycota* genera, *incertae sedis*, two species, type: *H. campanulata* Marvanová, hyphomycetous, saprobes, aquatic, former Czechoslovakia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helminthascus Tranzschel 1898 (= *Helminthascus* Tranzschel 1899 *fide* Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *H. arachnophthorus* Tranzschel, asexual morphs unknown, on insects, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Helminthocarpon Fée 1837, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *H. leprevostii* Fée, lichenized, terrestrial (corticolous, saxicolous), tropical, see Kirk et al. (2013; genus accepted), Bungartz et al. (2013a; outline), Lücking et al. (2017a; classification), sequences are available.

Helminthopeltis Sousa da Câmara 1950, *Dothideomycetes*, genera *incertae sedis*, one species, type: *H. almeidaeana* Sousa da Câmara, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, *Microthyriaceae*), Hyde et al. (2013) did not accept as a genus in *Microthyriaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Helminthosphaeria Fuckel 1870 (= *Litschaueria* Petr. 1923 *fide* Species Fungorum 2017), *Helminthosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, c. 20 species, type: *H. clavariarum* (Desm.) Fuckel, asexual morph diplococcium-like, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miller et al. (2014; new species, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Bell and Mahoney (2016; new species), culture available for the type: SMH4609.

Helminthosporiella Hern.-Restr., G.A. Sarria & Crous 2016, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. stilbacea* (Moreau) Hern.-Restr., G.A. Sarria & Crous, hyphomycetous, saprobes, terrestrial, Colombia, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Helminthosporiomyces G.F. Sepúlveda, Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, one species, type: *H. cerradensis* G.F. Sepúlveda, Pereira-Carv. & Dianese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Pereira-Carvalho et al. (2009b; taxonomy), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Helminthosporium Link 1809 (= *Macroön* Corda 1833; = *Mydonotrichum* Corda 1831; = *Oxysporium* Lév. 1863 *fide* Species Fungorum 2017), *Dothideomycetes*, genera *incertae sedis*, c. 40 species, type: *H. velutinum* Link, hyphomycetous, sexual morph unknown, saprobes, lignicolous, terrestrial, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012;

outline, listed under *Massarinaceae*), Hyde et al. (2013) did not accept as a genus in *Massarinaceae*, Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*, genera *incertae sedis*), Zhu et al. (2016; DNA, new species), cultures and reference specimen available for the type: MFLUCC 15-0243, HKAS 84015 (*fide* Zhu et al. 2016).

Helocarpon Fr. 1860 (= *Hastifera* D. Hawksw. & Poelt 1986; *Helocarpon* Th. Fr. 1860; = *Stereocauliscum* Nyl. 1865 *fide* Species Fungorum 2017), *Helocarpaceae*, *Lecanoromycetes* families *incertae sedis*, three species; type: *H. crassipes* Th. Fr., lichenized, see Lumbsch and Huhndorf (2010; outline), Miądlikowska et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Helochora Sherwood 1979, *Ascomycota* genera *incertae sedis*, one species, type: *H. hypertropha* Sherwood, asexual morph unknown, saprobes, terrestrial, India, UK, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Mesnieraceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013) Wijayawardene et al. (2014c) did not regard as a *Dothideomycetes*, cultures and sequences are unavailable.

Helodiomyces F. Picard 1913, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *H. elegans* F. Picard, asexual morph unknown, biotrophic, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Helotiella Sacc. 1884, *Leotiomycetes* genera *incertae sedis*, ?one species, type: *H. citri* (Penz.) Sacc., asexual morph unknown, saprobes, Europe, see Kirk et al. (2008; listed as nom. dub.), Lumbsch and Huhndorf (2010; outline, treated as *Helotiales*, genera *incertae sedis*), Jaklitsch et al. (2016a; classification).

Helvella L. 1753 (see Species Fungorum 2017 for synonyms), *Helvellaceae*, *Pezizales*, *Pezizomycetes*, c. 60 species, type: *H. mitra* L., asexual morph unknown, saprobes, ?from soil, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hwang et al. (2015; DNA, phylogeny), Zhao et al. (2016b; 2017, DNA, phylogeny, new species), Tibpromma et al. (2017b; new species), cultures and sequences are available but lacking for the type.

Hemibeltrania Piroz. 1963, *Ascomycota* genera *incertae sedis*, eleven species, type: *H. cinnamomi* (Deighton) Piroz., hyphomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, needs generic revision as have different opinions.

Hemicorynespora M.B. Ellis 1972, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, twelve species, type: *H. deightonii* M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Whitton et al. (2012a; new species), Ma et al. (2012b; new species), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available but lacking for the type species.

Hemicorynesporella Subram. 1992, *Ascomycota* genera *incertae sedis*, one species, type: *H. guadalcanalensis* (Matsush.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Guadalcanal, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hemidothis Syd. & P. Syd. 1916, *Ascomycota* genera *incertae sedis*, one species, type: *H. miconiae* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hemiglossum Pat. 1890, *Helotiales* genera *incertae sedis*, two species, type: *H. yunnanense* Pat., asexual morph unknown, saprobes, terrestrial, China, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hemigrapha (Müll. Arg.) R. Sant. ex D. Hawksw. 1975 (= *Melanographa* sect. Hemigrapha Müll. Arg. 1882 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, eight species, type: *H. asteriscus* (Müll. Arg.) R. Sant. ex D. Hawksw., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Wijayawardene et al. (2014c; outline), placement in *Parmulariaceae* supported by morphology, cultures and sequences are unavailable.

Hemileucoglossum S. Arauzo 2014, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, four species, type: *H. littorale* (Rostr.) S. Arauzo, asexual morph unknown, saprobes, terrestrial, China, Japan, see Arauzo and Iglesias (2014; taxonomy, phylogeny), cultures available for the type: C: 35673.

Hemimyriangium J. Reid & Piroz. 1966, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *H. betulae* J. Reid & Piroz., asexual morph unknown, saprobes, terrestrial, Sweden, see Lumbsch and

Huhndorf (2010; outline), Dissanayake et al. (2014; morphology), the genus was not listed in Kirk et al. (2013).

Hemisphaericaspora Hui, Ren, Chen, Li, Zhang & Niu 2014, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *H. nanyangensis* F.L. Hui, Y.C. Ren, L. Chen, Z.H. Li, L. Zhang, Q.H. Niu, asexual reproduction is by multilateral budding, saprophytic, frass of beetle larvae, South Africa, China, see Hui et al. (2014; taxonomy), sequences are available.

Hemisphaeropsis Petr. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *H. magnoliae* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hemisynnema Subram. 1995 [1992], *Ascomycota* genera *incertae sedis*, one species, type: *H. malayasianum* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not genus accepted), cultures and sequences are unavailable.

Hemithecium Trevis. 1853, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 50 species, type: *H. balbisii* (Fée) Trevis., asexual morph unknown, lichenized, terrestrial, tropical, see Archer (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rivas Plata et al. (2012a; taxonomy), Lücking et al. (2014, 2016; classification), sequences are available.

Hendersoniella (Sacc.) Tassi 1900 (= *Hendersonia* subgen. Hendersoniella Sacc. 1884; = *Hendersoniella* (Sacc.) Sacc. 1902 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *H. epixyla* Tassi, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hendersonina E.J. Butler 1913, *Ascomycota* genera *incertae sedis*, one species, type: *H. sacchari* E.J. Butler, coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hendersoniopsis Höhn. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *H. thelebola* (Sacc.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hendersonula Speg. 1880, *Ascomycota* genera *incertae sedis*, c. 20, species, type: *H. australis* Speg., coelomycetous, sexual morph unknown, saprobes or plant pathogenic, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hendersonulina Tassi 1902, *Ascomycota* genera *incertae sedis*, one species, type: need typification, coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Henfellra Halici, D. Hawksw., Z. Kocak & M. Kocak. 2016, *Ascomycota* genera *incertae sedis*, one species, type: *H. muriformis* Halici, D. Hawksw., Z. Kocak & M. Kocak, sexual morph unknown, lichenicolous, cultures and sequences are unavailable, holotype of the type: ERC-MGH 1.231.

Henicospora P.M. Kirk & B. Sutton 1980, *Ascomycota* genera *incertae sedis*, six species, type: *H. minor* P.M. Kirk & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Monteiro et al. (2014a; Brazil), cultures and sequences are unavailable.

Henningsiella Rehm 1895, *Schizothyriaceae*, *Dothideomycetes*, families *incertae sedis*, two species, type: *H. quitensis* Rehm, asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013, accepted as *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Henrica B. de Lesd. 1921, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, four species, type: *H. ramulosa* B. de Lesd., lichenized, Europe, North America, see Savić and Tibell (2008b; taxonomy, revision), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Heppia Nägeli 1854 (see Species Fungorum 2017 for synonyms), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, seven species, type: *H. adglutinata* A. Massal., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Heppsora D.D. Awasthi & K. Singh 1977, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *H. indica* D.D. Awasthi & Kr.P. Singh, lichenized, India, Middle East, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Heptameria Rehm & Thüm. 1879 (= *Verlotia* Fabre 1879 [1878] *fide* Species Fungorum 2017), *Dothideomycetes*, genera *incertae sedis*, two species, type: *H. elegans* Rehm & Thüm., asexual morph

unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Heracleicola Tibpromma, Camporesi & K.D. Hyde 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. premilcurensis* Tibpromma, Camporesi & K.D. Hyde, saprobes, Italy, see Ariyawansa et al. (2015a; morphology, phylogeny), cultures available for type: MFLUCC 14-0518.

Herbampulla Scheuer & Nograsek 1993, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *H. crassirostris* Scheuer & Nograsek, asexual morph unknown, saprobes, terrestrial, Austria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Hercospora Fr. 1825, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *H. tiliae* (Pers.) Tul. & C. Tul., asexual morph unknown, saprobes, terrestrial, Austria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), holotype and ex-type of the type: BPI 748440, AR3526.

Hermatomyces Speg. 1911, *Hermatomycetaceae*, *Pleosporales*, *Dothideomycetes*, 15 species, type: *H. tucumanensis* Speg., saprobes, terrestrial, Africa, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Doilom et al. (2017; new species, phylogeny), Hyde et al. (2016; new species), Tibpromma et al. (2016a, 2017b; new species), Hashimoto et al. (2017; new family and new species), cultures and sequences are available.

Herpomyces Thaxt. 1902, *Herpomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 25 species, type: *H. chaetophilus* Thaxt., asexual morph unknown, biotrophic, dioecious, hosts are Blattodea, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015b; DNA), sequences are available for type: (SSU, ITS, LSU), GenBank accession number for ITS of *Herpomyces chaetophilus*: KT800039.

Herposira Syd. 1938, *Ascomycota* genera *incertae sedis*, one species, type: *H. velutina* Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Herpothallon Tobler 1937, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, 46 species, type: *H. sanguineum* (Vain.) Tobler, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Herpotrichia Fuckel 1868 (= *Enchnosphaeria* Fuckel 1870 [1869–70]; = *Khekia* Petr. 1921; = *Sordariella* J.N. Kapoor, S.P. Lal & Bahl 1975 [1974] *fide* Species Fungorum 2017), *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, 101 species, type: *H. herpotrichoides* (Fuckel) P.F. Cannon, asexual morph coelomycetous, parasitic or saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012, 2014c, 2017; outline; phylogeny, coelomycetous taxa), Kirk et al. (2013; genus accepted), Tian et al. (2015; morphology, nomenclature, phylogeny), cultures and sequences are available but lacking for the type.

Herreromyces R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *H. catenosporus* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype: INIFAT C91/47, cultures and sequences are unavailable, compare with *Exochalara*, *Chloridium* and *Monilochaetes*.

Herteliana P. James 1980, *Squamarinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *H. taylorii* (Salwey) P. James, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017b; classification), sequences are available.

Hertelidea Printzen & Kantvilas 2004, *Stereocaulaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *H. botryosa* (Fr.) Printzen & Kantvilas, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Hertella Henssen 1985, *Placynthiaceae*, *Peltigerales*, *Lecanoromycetes*, three species, type: *H. subantarctica* Henssen, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Hesperomyces Thaxt. 1891, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eleven species, type: *H. virescens* Thaxt., no asexual state, biotrophic, hosts are *Biphyllidae*, *Coccinellidae*, *Mycetophagidae* (*Coleoptera*), and *Anthocoridae* (*Hemiptera*: *Heteroptera*), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015b, 2016; DNA), sequences are available for the type: (SSU, ITS, LSU), GenBank accession numbers for ITS of *Hesperomyces virescens*: JN127409, KF192910–KF192920, KT800043–KT800048, KU574864

Heterocarpon Müll. Arg. 1885, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type:

H. ochroleucum (Tuck.) Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Heterocephalum Thaxt. 1903, *Ascomycota* genera *incertae sedis*, two species, type: *H. aurantiacum* Thaxt., hyphomycetous, sexual morph unknown, coprophilous, saprobes, terrestrial, worldwide, see Puangsombat et al. (2010; Thailand), Seifert et al. (2011; morphology), Silva et al. (2011; Amazon forest), Cort (2012; distribution), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and Sequences are unavailable, neotype of type: CBS H-15402.

Heteroconium Petr. 1949, *Dothideomycetes* genera *incertae sedis*, 20 species, type: *H. citharexyli* Petr., hyphomycetous, sexual morph unknown, saprobes, endophytes, terrestrial, worldwide, see Ruíz et al. (2008; new species), Zhang et al. (2010c; new species), Seifert et al. (2011; morphology), Ma et al. (2012f; new species), Ren et al. (2012b; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Xia et al. (2013b; new species), Lahlali et al. (2014; resistance to clubroot), sequences are available for most of the species.

Heterocyphelium Vain. 1927, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *H. leucampyx* (Tuck.) Vain., lichenized, see Lumbsch and Huhndorf (2010; outline), Tibell and Frisch (2010; Africa), Kirk et al. (2013; genus accepted), Pandit (2015; India), Lücking et al. (2017a; classification), sequences are available.

Heterodermia Trevis. 1868 (= *Chaudhuria* Zahlbr. 1932; = *Pseudophyscia* Müll. Arg. 1894; = *Pseudophyscia* Müll. Arg. 1893 *fide* Species Fungorum 2017), *Physciaceae*, *Caliciales*, *Lecanoromycetes*, 90 species, type: *H. speciosa* (Wulfen) Trevis., lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Heteroepichloë E. Tanaka, C. Tanaka, Gafur & Tsuda 2002, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, type: *H. bambusae* (Pat.) E. Tanaka, C. Tanaka, Gafur & Tsuda, asexual morphs unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, nomenclature), cultures and sequences are available

Heteromyces Müll. Arg. 1889, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *H. rubescens* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences unavailable.

Heterophoma Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *H. sylvatica* (Sacc.) Q. Chen & L. Cai, coelomycetous, saprobes, ?pathogens, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), neotype and ex-neotype of the type: HMAS 246700, CBS 874.97.

Heteroplacidium Breuss 1996, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, twelve species, type: *H. imbricatum* (Nyl.) Breuss, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Heteroseptata E.F. Morris 1972, *Ascomycota* genera *incertae sedis*, one species, type: *H. bacillospora* E.F. Morris, sexual morph unknown, saprobes, terrestrial, Costa Rica, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Heterosphaeria Grev. 1824 (= *Heteropatella* Fuckel *fide* Johnston et al. 2014b), *Heterosphaeriaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *H. patella* (Tode) Grev., asexual morph hyphomycetous, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature; new combination), cultures and sequences are unavailable.

Heterosphaeriopsis Hafellner 1979, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. fulvodisca* (Pat.) Hafellner, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of type: (FH, Sweden), cultures and sequences are unavailable.

Heterosporicola Crous, ***nom. nov.*** MycoBank MB821707

≡ *Phoma* sect. *Heterospora* Boerema, Gruyter & Noordel., Persoonia 16(3): 336. 1997.

≡ *Heterospora* (Boerema, Gruyter & Noordel.) Gruyter, Aveskamp & Verkley, Stud. Mycol. 75: 18. 2012 [2013]. nom. illeg., [ICN (Melbourne) Art. 53.1], non *Heterospora* P. Kuckuck 1895 (*Tilopteridaceae*)

Leptosphaeriaceae, *Pleosporales*, *Dothideomycetes*, two species, coelomycetous, sexual morph unknown, saprobic or pathogenic on stems and leaves of *Chenopodium* spp., Argentina, Belgium, Peru, The Netherlands, see de Gruyter et al. (2012; morphology, phylogeny).

Holotype: Belgium, Beverloo, from leaves of *Chenopodium suecicum* (album) and *Chenopodium urbicum* (*Chenopodiaceae*), no date, G.D. Westendorp, Herb. Crypt. (Ed. Beyaert-Feys), No. 959. BR, holotype of *Phyllosticta chenopodii* Westend. ex herb. G.D.

Westendorp. Epitype (designated by de Gruyter et al. 2012): Netherlands, Baarn, from leaf spots in *Chenopodium album*, 3 Jul. 1968, H.A. van der Aa, CBS H-16386; culture ex-epitype, CBS 448.68.

Heterosporicola chenopodii (Westend.) Crous, ***comb. nov***. MycoBank: MB821708

≡ *Phyllosticta chenopodii* Westend., Bull. Acad. R. Sci. Belg., Cl. Sci., sér. 2 2(7): 567. 1857.

≡ *Heterospora chenopodii* (Westend.) Gruyter, Aveskamp & Verkley, Stud. Mycol. 75: 18. 2012 [2013].

≡ *Septoria westendorpii* G. Winter, Hedwigia 26: 26. 1887. nom. inval., [ICN (Melbourne) Art. 36.1(b)],

≡ *Phoma variospora* Aa & Kesteren, Persoonia 10: 268. 1979. nom. illeg., [ICN (Melbourne) Art. 53.1],

≡ *Phoma heteromorphospora* Aa & Kesteren, Persoonia 10: 542. 1980.

Heterosporicola dimorphospora (Speg.) Crous, ***comb. nov***. MycoBank: MB821709

≡ *Phyllosticta dimorphospora* Speg., Anal. Mus. nac. B. Aires, Ser. 3 13: 334. 1911.

≡ *Phoma dimorphospora* (Speg.) Aa & Kesteren, Persoonia 10(2): 269. 1979.

≡ *Heterospora dimorphospora* (Speg.) Gruyter, Aveskamp & Verkley, Stud. Mycol. 75: 18. 2012 [2013].

= *Stagonospora chenopodii* Peck, Rep. (Annual) New York State Mus. Nat. Hist. 40: 60. 1887.

Notes: The genus *Heterospora* (Boerema, Gruyter & Noordel.) Gruyter, Verkley & Crous 2012 is illegitimate, being a later homonym of the algal genus *Heterospora* P. Kuckuck 1895. In order to replace this name, the new name *Heterosporicola* nom. nov. is provided for this genus. Species of the genus are known plant pathogens of *Chenopodiaceae* in South America and Europe (de Gruyter et al. 2012).

Heuflera Bail 1860, *Ascomycota* genera *incertae sedis*, type: *H. betulae* Bail, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Heufleridium Müll. Arg. 1883, *Pyrenulales* genera *incertae sedis*, *Eurotiomycetes*, two species, type: *H. pentagastricum* (Müll. Arg.) Müll. Arg., asexual morphs unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hexacladium D.L. Olivier 1983, *Ascomycota* genera *incertae sedis*, one species, type: *H. corynephorum* D.L. Olivier, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hexagonella F. Stevens & Guba ex F. Stevens 1925, *Schizothyriaceae*, *Dothideomycetes*, families *incertae sedis*, two species, type: *H. peleae* F. Stevens & Guba ex F. Stevens, asexual morph unknown, saprobes, terrestrial, Hawaii, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013, accepted as *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Heydenia Fresen. 1852 (= *Riccoa* Cavara 1903; = *Rupinia* Speg. & Roum. 1879 *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, four species, type: *H. alpina* Fresen., hyphomycetous, sexual morph unknown, saprobes, terrestrial, north temperate, see Seifert et al. (2011; morphology), Leuchtmann and Clemencon (2012; DNA, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures available for the type: 0732.

Heyderia Link 1833, *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *H. abietis* (Fr.) Link, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Hemiphacidiaceae*), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny, accepted as a genus in *Cenangiaceae*), cultures available for the type: KL20.

Hidakaea I. Hino & Katum. 1955, *Dothideomycetes* genera *incertae sedis*, two species, type: *H. tumidula* I. Hino & Katum, asexual morph unknown, saprobes, terrestrial, Hawaii, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Wu et al. (2010; placed in *Hypocreales* genera incertae sedis), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable, generic revision is essential as it has different opinions.

Hiemsia Svrček 1969, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *H. pseudoampezzana* (Svrček) Svrček, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hilberina Huhndorf & A.N. Mill. 2004, *Helminthosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, c. 20 species, type: *H. caudata* (Fuckel) Huhndorf & A.N. Mill., asexual morph diplococcium-like, saprobes, terrestrial, worldwide, see Declercq (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miller et al. (2014; new species, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Bell and Mahoney (2016; new species), culture available for the type: SMH1542 (*fide* Miller et al. 2014).

Himantormia I.M. Lamb 1964 (= *Nimisia* Kärnefelt & A. Thell 1993 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *H. lugubris* (Hue) I.M. Lamb, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Hinoa Hara & I. Hino 1961 (= *Haraella* Hara & I. Hino 1955 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *H. sasae* (Hara & I. Hino) Hara & I. Hino, ?coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hippocrepidea Sérus. 1997, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *H. nigra* Sérus., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Hirudinaria Ces. 1856 (= *Hippocrepidium* Sacc. 1874 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *H. mespili* Ces., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hispidicarpomyces Nakagiri 1993, *Hispidicarpomycetaceae*, *Spathulosporales*, *Sordariomycetes*, one species (probably more than this), type: *H. galaxauricola* Nakagiri, spermatiophores or asexual morph hyphomycetous, biotrophic on marine red alga, Japan, see Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2016b; outline, the family accepted as in *Spathulosporales*), cultures and sequences are unavailable, holotype of the type: IFO H-12135 and paratype IFO H-12136, needs generic revision since have different opinions.

Hispidoconidioma Tsuneda & M.L. Davey 2010, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *H. alpinum* Tsuneda & M.L. Davey, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Tsuneda et al. (2010; taxonomy), Wijayawardene et al. (2012, 2014c; outline), holotype and ex-type of the type: UAMH 11010, L2-2.

Histeridomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, six species, type: *H. ramosus* Thaxt., asexual morph unknown, biotrophic, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Histoplasma Darling 1906, *Ajellomycetaceae*, *Onygenales*, *Eurotiomycetes*, seven species, type: *H. capsulatum* Darling, hyphomycetous, sexual morph unknown, on humans and animals, bat guano, terrestrial, Africa, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Hobsoniopsis D. Hawksw. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *H. santessoniii* (Lowen & D. Hawksw., sexual morphs unknown, lichenicolous, Europe, terrestrial, see Seifert et al. (2011; morphology), cultures and sequences are available, holotype of type at UPS.

Hobus Jaklitsch & Voglmayr 2016, *Thyridariaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *H. wogradensis* Jaklitsch & Voglmayr, asexual morph unknown, saprobes, Central Europe, see Jaklitsch and Voglmayr (2016; taxonomy, phylogeny), holotype of the type: WU 36874.

Hoehneliella Bres. & Sacc. 1902 (= *Klebahnopycnis* Kirschst. 1939 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *H. perplexa* Bres. & Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Austria, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hoffmannoscypha Stielow, Göker & Klenk 2012 [2013], *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *H. pellita* (Sacc.) Stielow, Göker & Klenk, asexual morph unknown, saprobes, terrestrial, Europe, see Stielow et al. (2013; taxonomy, phylogeny), epitype of the type: M-0156529 (holotype of *Peziza pellita*), cultures and sequences are available.

Holmiella Petrini, Samuels & E. Müll. 1979 (= *Caldesia* Rehm 1890 [1896]; = *Eutryblidiella* Höhn 1918 *fide* Species Fungorum 2017), *Patellariaceae*, *Patellariales*, *Dothideomycetes*, two species, type: *H. sabina* (De Not.) Petrini, Samuels & E. Müll., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are unavailable.

Holocryphia Gryzenh. & M.J. Wingf. 2006, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *H. eucalypti* (M. Venter & M.J. Wingf.) Gryzenh. & M.J. Wingf., asexual morph unknown, pathogens, terrestrial, Australia, New Zealand, South Africa, see Lumbsch and Huhndorf (2010; outline), Chen

et al. (2013b; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: PREM 56211, cultures and sequences are available.

Holubovaea Mercado 1983, *Ascomycota* genera *incertae sedis*, two species, type: *H. roystoneicola* Mercado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Holwaya Sacc. 1889 (= *Crinula* Fr. 1821; = *Ditiola* Schulzer 1860; = *Jugglerandia* Lloyd 1923 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, two species, type: *H. ophiobolus* (Ellis) Sacc., asexual morph *Crinula*, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Johnston et al. (2014b; nomenclature), living cultures and sequences are available for sexual morph.

Homaromyces R.K. Benj. 1955, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *H. epieri* R.K. Benj., asexual morph unknown, biotrophic, USA, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Homortomyces Crous & M.J. Wingf. 2012, *Homortomycetaceae*, *Dothideomycetes* families *incertae sedis*, type: *H. combreti* Crous & M.J. Wingf., two species, saprobes, South Africa, Italy, see Crous et al. (2012b; morphology, phylogeny), Wijayawardene et al. (2014c, 2014e, 2016b; morphology, phylogeny), Thambugala et al. (2017a, phylogeny), ex-epitype strains of type: CPC 19800; epitype CBS H-21049.

Homostegia Fuckel 1870 [1869–70] (= *Trematosphaeris* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Dothideomycetes*, genera *incertae sedis*, five species, type: *H. adusta* Fuckel, asexual morph unknown, saprobes, terrestrial, Cuba, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Homothecium A. Massal. 1853 (= *Lecidocollema* Vain. 1890 *fide* Species Fungorum 2017), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, five species, type: *H. opulentum* (Mont.) A. Massal., lichenized, see Kirk et al. (2013; genus accepted), Ekman et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Hongkongmyces C.C.C. Tsang, J.F.W. Chan, N.J. Trendell-Sm., A.H.Y. Ngan, I.W.H. Ling, K.Y. Yuen, S.K.P. Lau & P.C.Y. Wood 2014, *Lindgomycetaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *H. pedis* C.C.C. Tsang et al., asexual morph unknown, human pathogen, Hong Kong, see Tsang et al. (2014b; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), holotype and ex-type strain of the HKU35.

Hoornsmania Crous 2007, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *H. pyrina* Crous, hyphomycetous, sexual morph unknown, hyperparasitic on *Neonectria ditissima*, terrestrial, France, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), holotype of the type: CBS H-19769, cultures and sequences are unavailable.

Hormiactis Preuss 1851 (= *Hormiactina* Bubák 1916 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, five species, type: *H. alba* Preuss, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Sri Lanka, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hormiokrypsis Bat. & Nascim. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *H. libocedri* Bat. & Nascim., coelomycetous, sexual morph unknown, sooty mould on plants, terrestrial, Australasia, North America, Oceania, see Seifert et al. (2011; morphology, accepted as a genus in *Metacapnodiaceae*), Wijayawardene et al. (2012, 2014c; outline, accepted as a genus in *Metacapnodiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Hormiscioideus M. Blackw. & Kimbr. 1979, *Ascomycota* genera *incertae sedis*, one species, type: *H. filamentosus* M. Blackw. & Kimbr., hyphomycetous, sexual morph unknown, on insects, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hormisciomyces Bat. & Nascim. 1957, *Euantennariaceae*, *Dothideomycetes* families *incertae sedis*, eight species, type: *H. prepusus* Bat. & Nascim., sooty mould, terrestrial, Australasia, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hormocephalum Syd. 1939, *Ascomycota* genera *incertae sedis*, five species, type: *H. ecuadorense* Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Sri Lanka, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hormocladium Höhn. 1923 (see Species Fungorum 2017 for synonyms), *Ascomycota* genera *incertae sedis*,

one species, type: *H. kaki* (Hori & Yoshino) Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hormoconis Arx & G.A. de Vries 1973, *Amorphothecaceae*, *Leotiomycetes*, families *incertae sedis*, two species, type: *H. resinae* (Lindau) Arx & G.A. de Vries, hyphomycetous, sexual morph unknown, saprobes on resins, hydrocarbons, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available.

Hormographis Guarro, Punsola & Arx 1986, *Ascomycota* genera *incertae sedis*, one species, type: *H. ramirezii* Guarro, Punsola & Arx, hyphomycetous, sexual morph unknown, from soil, terrestrial, Spain, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hormonema Lagerb. & Melin 1927, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, six species, type: *H. dematioides* Lagerb. & Melin, saprobes, human pathogen, terrestrial, Spain, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), Crous et al. (2015d; new species, DNA), ?polyphyletic, needs generic revision and epitypification.

Hormosphaeria Lév. 1863, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *H. tessellata* Lév., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Hortaea Nishim. & Miyaji 1984, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *H. werneckii* (Horta) Nishim. & Miyaji, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c; outline, phylogeny), Hyde et al. (2013; accepted as a genus in *Teratosphaeriaceae*), Egidi et al. (2014; phylogeny), Quaedvlieg et al. (2014; phylogeny), cultures available for the type: CBS 117931=TRN122 (*fide* Egidi et al. 2014).

Hosseusia Gyeln. 1940, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *H. gertrudiana* Gyeln., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences unavailable.

Houjia G.Y. Sun & Crous 2010, *Phaeothecoidiellaceae*, *Dothideomycetes* family, *incertae sedis*, two species, hyphomycetous, sexual morph unknown, saprobes, ?pathogens, terrestrial, USA, China, see Yang et al. (2010; morphology, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Hongsanan et al. (2017b; phylogeny, family placement), holotype and ex-type strains of the type: CBS H-20325, CPC 16114.

Huangshania O.E. Erikss. 1992, *Triblidiaceae*, *Triblidiales*, *Leotiomycetes*, two species, type: *H. verrucosa* O.E. Erikss., asexual morph unknown, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Huea C.W. Dodge & G.E. Baker 1938 (= *Carbonea* (Hertel) Hertel 1983 *fide* Lücking et al. (2017a; see Species Fungorum 2017 for additional synonyms), *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, 20 species, type: *H. flava* C.W. Dodge & G.E. Baker, lichenized, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Teloschistaceae*), Lücking et al. (2017a; classification), sequences are available.

Hueidea Kantvilas & P.M. McCarthy 2003, *Fuscideaceae*, *Umbilicariales*, *Lecanoromycetes*, one species, type: *H. australiensis* Kantvilas & P.M. McCarthy, lichenized, see Lücking et al. (2017a; classification), sequences are unavailable.

Hughesinia J.C. Lindq. & Gamundí 1970, *Ascomycota* genera *incertae sedis*, one species, type: *H. chusqueae* J.C. Lindq. & Gamundí, hyphomycetous, sexual morph unknown, from soil, terrestrial, Chile, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Humaria Fuckel 1870 (= *Lachnea* Boud. 1885; = *Leucopezis* Clem. 1909; = *Mycolachnea* Maire 1937 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, c. 16 species, type: *H. hemisphaerica* (F.H. Wigg.) Fuckel, asexual morph unknown, saprobes, terrestrial, north temperate, see Palmer et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Gaitnieks et al. (2016; DNA), Klavina et al. (2016; DNA, mycorrhization), cultures and sequences are available.

Humicola Traaen 1914 (= *Melanogone* Wollenw. & H. Richt. 1934 *fide* Species Fungorum 2017), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *H. fuscoatra* Traaen, hyphomycetous, sexual morph unknown, saprobes, from soil, terrestrial, worldwide, see Jiang and Zhang (2010; new species, China), Wu and Zhang (2013; new species), Kirk et al. (2013; genus accepted), Geng and Zhang (2014; new species), Zhang and Zhang (2014; new species, China), Maharachchikumbura et al. (2015b, 2016b; outline),

cultures available for the type: NRRL 22980, DAOM 35882.

Humicolopsis Cabral & S. Marchand 1976, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *H. cephalosporioides* Cabral & Marchand, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Argentina, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Huneckia S.Y. Kondr., Elix, Kärnefelt, A. Thell & Hur 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *H. pollinii* (A. Massal.) S.Y. Kondr., Kärnefelt, A. Thell, Elix, J. Kim, A.S. Kondr. & Hur, lichenized, see Kondratyuk et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Huntiella Z.W. de Beer, T.A. Duong & M.J. Wingf. 2014, *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, 17 species, type: *H. moniliformis* (Hedgc.) Z.W. de Beer, T.A. Duong & M.J. Wingf., asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see De Beer et al. (2014; phylogeny), Maharachchikumbura et al. (2015; phylogeny, outline), sequences are available.

Hyalacrotes (Korf & L.M. Kohn) Raitv. 1991 (= *Urceolella* subgen. *Hyalacrotes* Korf & L.M. Kohn 1980 *fide* Species Fungorum 2017), *Calloriaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *H. hamulata* (Rehm) Raitv., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalobelemnospora Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *H. amazonica* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Peru, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalocamposporium Révay & J. Gönczöl 2007, *Ascomycota* genera *incertae sedis*, four species, type: *H. longiflagellatum* Révay & J. Gönczöl, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: BP 98968, cultures and sequences are unavailable.

Hyalocephalotrichum Nagaraju, Kunwar, Sureshk. & Manohar. 2011, *Ascomycota* genera *incertae sedis*, one species, type: *H. indicum* Nagaraju, Kunwar, Sureshk. & Manohar., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, holotype of the type: HCIO 50144, cultures and sequences are unavailable.

Hyalocladium Moustafa 1977 [1976], *Ascomycota* genera *incertae sedis*, one species, type: *H. moubasheri* Moustafa, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Kuwait, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalocrea Syd. & P. Syd. 1917 (= *Poeltia* Petr. 1972 [1971]; = *Poeltiella* Petr. 1974 [1972] *fide* Species Fungorum 2017), *Dothideomycetes*, genera *incertae sedis*, four species, type: *H. epimyces* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hyalocylindrophora J.L. Crane & Dumont 1978, *Ascomycota* genera *incertae sedis*, three species, type: *H. rosea* (Petch) Réblová & W. Gams, hyphomycetous, sexual morph unknown, on cheese and fungi, terrestrial, Europe, North America, see Réblová et al. (2011; reinstated the genus), Seifert et al. (2011; morphology), Maharachchikumbura et al. (2015b, 2016b; outline, treated as a genus in *Australiascaceae*), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Hyalodendriella Crous 2007, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *H. betulae* Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Netherlands, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type strains of the type: CBS-H 19895, CBS 261.82.

Hyaloderma Speg. 1884 (= *Mycophaga* F. Stevens 1924 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, one species, type: *H. imperspicuum* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Hyalodermella Speg. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *H. gardeniae* (Keissl.) Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalodictyum Woron. 1916, *Ascomycota* genera *incertae sedis*, one species, type: *H. colchicum* Woron., coelomycetous, sexual morph unknown, saprobes, terrestrial, former USSR, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalohelicomina T. Yokoy. 1974, *Ascomycota* genera *incertae sedis*, one species, type: *H. deutziae* (T. Yokoy.)

T. Yokoy., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalomeliolina F. Stevens 1924, *Perisporiopsidaceae*, *Dothideomycetes*, families *incertae sedis*, two species, type: *H. guianensis* F. Stevens, asexual morph unknown, saprobes, terrestrial, central and south America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Perisporiopsidaceae*), cultures and sequences are unavailable.

Hyalopeziza Fuckel 1870 (= *Hyalotricha* Dennis 1949; = *Pseudolachnea* Velen. 1934 *fide* Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, c. 15 species, type: *H. patula* (Pers.) Fuckel, asexual morph phialophora-like, saprobes, ?lichenicolous, terrestrial, worldwide, see Huhtinen et al. (2008; new species, Alaska), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), type in G and S herbarium, cultures and sequences are available but lacking for the type.

Hyalopleiochaeta R.F. Castañeda, Guarro & Cano 1996, *Ascomycota* genera *incertae sedis*, one species, type: *H. delicata* R.F. Castañeda, Guarro & Cano, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype: INIFAT C94/140, cultures and sequences are unavailable, compare with *Camposporium.*

Hyalorbilia Baral & G. Marson 2001 (= *Dwayaangam* Subram. 1978 *fide* Baral et al. 2015), *Orbiliaceae*, *Orbiliales*, Orbiliomycetes, 13 species, type: *H. berberidis* (Velen.) Baral, asexual morph ?hyphomycetous, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available but lacking for type species.

Hyalorhinocladiella H.P. Upadhyay & W.B. Kendr. 1975, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, one species, type: *H. minuta-bicolor* (R.W. Davidson) H.P. Upadhyay & W.B. Kendr., hyphomycetous, saprobes, worldwide, see Lu et al. (2009; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Hyalorostratum Raja & Shearer 2010, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *H. brunneisporum* Raja & Shearer, freshwater, Alaska and New Hampshire see Raja et al. (2010a; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: A573-1 ILL 40792.

Hyaloscolecostroma Bat. & J. Oliveira 1967, *Dothideomycetes* genera *incertae sedis*, one species, type: *H. rondoniense* Bat. & J. Oliveira, asexual morph unknown, lichenicolous, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; outline, genus accepted), Wijayawardene et al. (2014c; outline), culture and sequence are unavailable.

Hyaloscypha Boud. 1885 (= *Eupezizella* Höhn. 1926; = *Orbiliopsis* Höhn. 1926; = *Parorbiliopsis* Spooner & Dennis 1986 [1985]; = *Pseudaegerita* J.L. Crane & Schokn. 1981; = *Truncicola* Velen. 1934 *fide* Jaklitsch et al. 2016a; Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, c. 45 species, type: *H. vitreola* (P. Karst.) Boud., asexual morph hyphomycetous in *H. albohyalina* var. *spiralis* and *H. albohyalina* var. *monodictys*, saprobes, terrestrial, worldwide, see Baral et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), cultures and sequences are available for the type: M220 (fide Baral et al. 2009).

Hyaloseta A.W. Ramaley 2001, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *H. nolinae* A.W. Ramaley, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), ex-type culture for the type: CBS 109837.

Hyalosphaera F. Stevens 1917 (= *Dexteria* F. Stevens 1917; = *Hyalotexis* Syd. 1925 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, four species, type: *H. miconiae* F. Stevens, asexual morph unknown, saprobes, terrestrial, North and Central America, see Alves et al. (2010; new species, Costa Rica), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence data available for unidentified *Hyalosphaera* species.

Hyalosynnema Matsush. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *H. multiseptatum* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, Taiwan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalotheles Speg. 1908, *Dothideomycetes*, genera *incertae sedis*, one species, type: *H. dimerosperma* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Alves et al. (2010; new species, Costa Rica), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Elsinoaceae*), Li et al. (2011; excluded from *Elsinoaceae*), Jayawardena et al. (2014; excluded from

Elsinoaceae), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence data available for unidentified *Hyalosphaera* species.

Hyalothyridium Tassi 1900 (= *Hyalothyris* Clem. 1909 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *H. viburnicola* Tassi, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyalotiella Papendorf 1967, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, four species, type: *H. transvalensis* Papendorf, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), Li et al. (2015d; new species); Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; outline), sequence data and cultures available but lacking for the type.

Hyalotiopsis Punith. 1970 (= *Ellurema* Nag Raj & W.B. Kendr. *fide* Réblová et al. 2016c), *Sordariomycetes* genera *incertae sedis*, one species, type: *H. subramanianii* (Agnihothr. & Luke) Punith., coelomycetous, sexual morph formerly known in *Ellurema*, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), Réblová et al. (2016c; nomenclature), cultures and sequences are unavailable.

Hydea K.L. Pang & E.B.G. Jones 2010, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *H. pygmea* (Kohlm.) K.L. Pang & E.B.G. Jones, hyphomycetous, sexual morph unknown, saprobes, marine, pantropical, see Abdel-Wahab et al. (2010; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Hydnobolites Tul. & C. Tul. 1843, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *H. cerebriformis* Tul. & C. Tul., asexual morph unknown, hypogeous, terrestrial, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Healy et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures available for type: PA9 (*fide* Klavina et al. 2016).

Hydnocystis Tul. & C. Tul. 1845 (= *Protogenea* Kobayasi 1964 [1963] *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *H. arenaria* Tul. & C. Tul., asexual morph unknown, hypogeous, terrestrial, Japan, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available (unpublished) but lacking for the type.

Hydnotrya Berk. & Broome 1846 (= *Geoporella* Soehner 1951; = *Gyrocratera* Henn. 1899 *fide* Species Fungorum 2017), *Discinaceae*, *Pezizales*, *Pezizomycetes*, c. 15 species, type: *H. tulasnei* (Berk.) Berk. & Broome, asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Li et al. (2013; DNA, phylogeny, new species), Methven et al. (2013; DNA, phylogeny), cultures available for the type: BB70 (766) (fide Stielow et al. 2010).

Hydnotryopsis Gilkey 1916, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *H. setchellii* Gilkey, asexual morph unknown, hypogeous, terrestrial, North America, see Brock et al. (2009; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available for the type: RBG Kew K(M)99871.

Hydraeomyces Thaxt. 1896, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *H. halipli* (Thaxt.) Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hydrocina Scheuer 1991, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *H. chaetocladia* Scheuer, asexual morph unknown, saprobes, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Baschien et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available for the type: HME4375, CCM F-10890 (*fide* Baschien et al. 2013).

Hydromelitis A. Ferrer, A.N. Mill., C. Sarmiento & Shearer 2012, *Sordariomycetidae* genera *incertae sedis*, one species, *H. pulchella* A. Ferrer, A.N. Mill., Sarmiento & Shearer, freshwater, submerged substrates, Costa Rica, see Ferrer et al. (2012; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: AF284-2, ILL 40117.

Hydrometrospora J. Gönczöl & Révay 1985, *Ascomycota* genera *incertae sedis*, one species, type: *H. symmetrica* J. Gönczöl & Révay, hyphomycetous, sexual morph unknown, saprobes, aquatic, Hungary, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, Holotype and cultures of type species unavailable.

Hydronectria Kirschst. 1925, *Sordariomycetes* genera *incertae sedis*, one species, type: *H. kriegeriana* Kirschst., asexual morph unknown, algicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are

unavailable, cultures and sequences of type species are unavailable.

Hydrophilomyces Thaxt. 1908, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, twelve species, type: *H. rhynchophorus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hydropisphaera Dumort. 1822 (= *Hyphonectria* (Sacc.) Petch 1937; = *Nectria* subgen. Hyphonectria Sacc. 1883; = *Neohenningsia* Koord. 1907; = *Neuronectria* Munk 1957; = *Perrotiella* Naumov 1916 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, 25 species, type: *H. peziza* (Tode) Dumort., asexual morph unknown, terrestrial, aquatic, worldwide, Lechat et al. (2010; asexual morph), Luo and Zhuang (2010; new species), cultures and sequences are available.

Hydropunctaria C. Keller, Gueidan & Thüs 2009, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, eight species, type: *H. maura* (Wahlenb.) C. Keller, Gueidan & Thüs, marine, lichenized, Asia, Europe, Australia, South America, see Gueidan et al. (2009; description, phylogeny), Roux et al. (2011; new species), Lücking et al. (2017a; classification), cultures and sequences are available, but not from type material.

Hymenelia Kremp. 1852 (= *Pinacisca* A. Massal. 1854 *fide* Species Fungorum 2017), *Hymeneliaceae*, *Hymeneliales*, *Lecanoromycetes*, 25 species, type: *H. prevostii* (Duby) Kremp., lichenized, worldwide, see Wirth et al. (2011; Germany), Himelbrant et al. (2013; Russia), Aptroot and Moon (2014; Korea), Kantvilas (2014b; new species), Hansen (2015; Greenland), Lücking et al. 2016 (classification), cultures and sequences are available but lacking for type species.

Hymenella Fr. 1822 (= *Hymenula* Fr. 1825 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, eleven species, type: *H. arundinis* Fr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hymeniopeltis Bat. 1959, *Ascomycota* genera *incertae sedis*, three species, type: *H. erythroxyli* Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, Holotype and ex-type of type species unavailable.

Hymenobia Nyl. 1854 (= *Hymenobiella* Triebel 1989 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *H. insidiosa* Nyl., asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, Holotype or ex-type of type species unavailable.

Hymenobolus Durieu & Mont. 1845, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *H. agaves* Durieu & Mont., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hymenopsis Sacc. 1886 (= *Amerosporium* subgen. *Phaeopolynema* (Speg.) Petr. & Syd. 1937; = *Chaetodiscula* Bubák & Kabát 1910; = *Phaeodochium* M.L. Farr 1968; = *Phaeopolynema* Speg. 1912; = *Schoenbornia* Bubák 1906 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 13 species, type: *H. trochiloides* (Sacc.) Sacc., sexual morph unknown, saprobes, fungicolous, terrestrial, worldwide, see Schmidt et al. (2010; extrolites), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, holotype and ex-type of type species unavailable.

Hymenoscyphus Gray 1821 (= *Belospora* Clem. 1909; = *Ciboriella* Seaver 1951; = *Hymenoscypha* (Fr.) W. Phillips 1887; = *Peziza* trib. *Hymenoscypha* Fr. 1822; = *Septatium* Velen. 1934 *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, c. 170 species, type: *H. fructigenus* (Bull.) Gray, asexual morph ?hyphomycetous, pathogens, saprobes, terrestrial, North and South America, see Lumbsch and Huhndorf (2010; outline), Queloz et al. (2011; cryptic species), Kirk et al. (2013; genus accepted), Baral et al. (2014; nomenclature), Gross et al. (2014; pathogens), Zheng and Zhuang (2014; new species, China), cultures and sequences are available.

Hymenotorrendiella P.R. Johnst., Baral & R. Galán 2014, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, nine species, type: *H. eucalypti* (Berk.) P.R. Johnst., Baral & R. Galán, asexual morph unknown, saprobes, terrestrial, Europe, see Johnston et al. (2014a; taxonomy, DNA, phylogeny), cultures and sequences are available.

Hyperphyscia Müll. Arg. 1894 (= *Dimelaena* sect. Tetramelaena Trevis. 1868; = *Physcia* sect. Tetramelaena (Trevis.) Zahlbr. 1803; = *Physciopsis* M. Choisy 1950; = *Tetramelaena* (Trevis.) C.W. Dodge 1971 *fide* Species Fungorum 2017), *Physciaceae*, *Caliciales*, *Lecanoromycetes*, nine species, type: *H. synthalea* (C. Knight) Müll. Arg., lichenized, worldwide, see Esslinger et al. (2012; new species), Lücking et al. (2017a; classification), cultures and sequences are available.

Hyphochlaena Cif. 1962, *Ascomycota* genera *incertae sedis*, one species, type: *H. caespitosa* Cif., sterile

mycelium, sexual morph unknown, saprobes, terrestrial, Dominican Republic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyphoconis Egidi & Quaedvl. 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *H. sterilis* Egidi & Quaedvl., hyphomycetous, sexual morph unknown, rock-inhabiting fungus, see Egidi et al. (2014; taxonomy), Wijayawardene et al. (2017; outline), cultures available for the type: CBS 118321 =TRN278.

Hyphodiscosia Lodha & K.R.C. Reddy 1974, *Ascomycota* genera *incertae sedis*, five species, type: *H. jaipurensis* Lodha & K.R.C. Reddy, hyphomycetous, saprobes, pathogen, terrestrial, Argentina, Australia, Brazil, Cuba, Czechoslovakia, India, Japan, Mexico, Nigeria, Poland, Russia, Taiwan, Thailand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species, Holotype and ex-type of type species RUBL 730.

Hyphodiscosioides Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *H. tambopataensis* Matsush., hyphomycetous, saprobes, terrestrial, Peru, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, Holotype and ex-type of type species MFC 1P-449.

Hyphodiscus Kirschst. 1907 (= *Catenulifera* Hosoya 2002; = *Incrupilella* Svrček 1986; = *Tanglella* Höhn. 1918 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, c. 20 species, type: *H. gregarius* Kirschst., asexual morph *Catenulifera* (hyphomycetous), saprobes, north temperate, see Huhtinen et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Hosoya et al. (2011; DNA, phylogeny, new species), Pärtel and Põldmaa (2011; new species), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature; new combinations), cultures and sequences are available but lacking for the type species.

Hyphopeziza J.G. Han, Hosoya & H.D. Shin 2014, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *H. pygmaea* (Mouton) J.G. Han, Hosoya & H.D. Shin, asexual morph unknown, saprobes, terrestrial, worldwide, see Han et al. (2014; taxonomy), cultures and sequences are unavailable, holotype and available cultures of the type species Mouton 473 (BR), KUS F51564.

Hyphopichia von Arx & van der Walt 1976, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, nine species, type: *H. burtonii* (Boidin, Pignal, Lehodey, Vey & Abadie) von Arx & van der Walt, asexual reproduction is by multilateral budding, saprophytic, on pollen, alfalfa silage, grain, various fruits, human skin, sputum, decaying insect infested wood, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Hyphopolynema Nag Raj 1977, *Ascomycota* genera *incertae sedis*, six species, type: *H. tropicale* Nag Raj, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, Brazil, Colombia, India, USA, UK, see Pinho et al. (2010; morphology, new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Hyphoscypha Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *H. loricata* Velen., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyphosoma Syd. 1924, *Metacapnodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *H. hypoxyloides* Syd., see Kirk et al. (2008; nom. conf.).

Hyphostereum Pat. 1892, *Ascomycota* genera *incertae sedis*, one species, type: *H. pendulum* Pat., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hyphothyrium B. Sutton & Pascoe 1989, *Ascomycota* genera *incertae sedis*, one species, type: *H. pallidum* B. Sutton & Pascoe, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hypobryon Döbbeler 1983, *Dothideomycetes*, genera *incertae sedis*, seven species, type: *H. poeltii* (Döbbeler) Döbbeler, asexual morph unknown, on hepatics, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hypocenomyce M. Choisy 1951, *Ophioparmaceae*, *Umbilicariales*, *Lecanoromycetes*, four species, type: *H. scalaris* (Ach. ex Lilj.) M. Choisy, lichenized, worldwide, see Björk (2010; USA), Bendiksby and Timdal (2013, phylogeny, taxonomy), Stepanchikova et al. (2013; Russia), Miądlikowska et al. (2014a; Poland), Lücking et al. (2017a; classification), cultures and sequences are available, holotype and ex-type of type species unavailable.

Hypocline Syd. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *H. penniseti* Syd.,

hyphomycetous, sexual morph unknown, saprobes, terrestrial, Dominican Republic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hypocopra (Fr.) J. Kickx f. 1867 (= *Coprolepa* Fuckel 1870; = *Coprolepa* Fuckel 1870 [1869–70]; = *Massaria* subgen. Hypocopra Fr. 1849 *fide* Species Fungorum 2017; Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, c. 35 species, type: *H. merdaria* (Fr.) J.J. Kickx, asexual morph unknown, terrestrial, saprobes, mainly coprophilous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jayanetti et al. (2014; applications), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type species.

Hypocrella Sacc. 1878 (= *Aschersonia* Mont. *fide* Maharachchikumbura et al. 2015b, 2016b; Rossman et al. 2016a), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 43 species, type: *H. discoidea* (Berk. & Broome) Sacc., asexual morph *Aschersonia*, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, nomenclature), Rossman et al. (2016a; nomenclature), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Hypocreodendron Henn. 1897 (= *Discoxylaria* J.C. Lindq. & J.E. Wright 1964; = *Poroniopsis* Speg. 1922 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *H. sanguineum* Henn., hyphomycetous, sexual morph formerly known in *Discoxylaria*, saprobes, Argentina, Mexico, see Lumbsch and Huhndorf (2010; outline), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Réblová et al. (2016c; nomenclature), Daranagama et al. (2017; morphology, taxonomy, key, sexual-asexual link), sequence data available for one species *D. myrmecophila*.

Hypocreopsis P. Karst. 1873 (= *Dozya* P. Karst. 1873 *fide* Species Fungorum 2017), *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *H. riccioidea*, (Bolton) P. Karst., asexual morph hyphomycetous, saprobes and/or pathogens, terrestrial, Atlantic coast of Europe, Eastern USA, South-Eastern Australia, New Zealand, see Lumbsch and Huhndorf (2010; outline), Grundy et al. (2012; molecular analysis), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Hypoderma De Not. 1847 (= *Epidermella* Tehon 1935; = *Hypodermopsis* Kuntze 1898; = *Locelliderma* Tehon 1935; = *Schizochorella* Höhn. 1918 *fide* Species Fungorum 2017), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *H. rubi* (Pers.) DC., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Lantieri et al. (2011; phylogeny, new species), Lantz et al. (2011; DNA, phylogeny), Wang et al. (2013d; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available, lectotype 'Hb. Pers. mis Chaill.

Hypodermella Tubeuf 1895, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, three species, type: *H. laricis* Tubeuf, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hypodermellina Höhn. 1917, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *H. ruborum* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hypodermina Höhn. 1916 (= *Daedala* Hazsl. 1887; = *Mazzantiella* Höhn. 1918 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *H. nervisequa* (Link) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hypoflavia Marbach 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, three species, type: *H. velloziae* (Kalb) Marbach, lichenized, Brazil, Thailand, Chile, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Hypogloeum Petr. 1923, *Ascomycota genera incertae sedis*, one species, type: *H. euonymi* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hypogymnia (Nyl.) Nyl. 1896 (= *Ceratophyllum* M. Choisy 1951; = *Parmelia* subgen. *Hypogymnia* Nyl. 1881 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 90 species, type: *H. physodes* (L.) Nyl., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Miądlikowska et al. (2011, phylogeny), Kirk et al. (2013; genus accepted), McCune and Wang (2014, inventory), Lücking et al. (2017a; classification), cultures and sequences are available.

Hypohelion P.R. Johnst. 1990 (= *Leptostroma* Fr. 1815 *fide* Johnston et al. 2014b), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, three species, type: *H. scirpinum* (DC.) P.R. Johnst., asexual morph *Leptostroma*, saprobes, north temperate, see Lumbsch and Huhndorf (2010; outline), Lantz et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Wang et al. (2014b; DNA, phylogeny), cultures and sequences are available, cultures available for type: Lantz 394 (UPS) (*fide* Lantz et al. 2011).

Hypomyces (Fr.) Tul. 1870 (= *Cladobotryum* Nees 1816; = *Sepedonium* Link 1809; = *Stephanoma* Wallr. 1833 *fide* Jaklitsch et al. 2016a; see Species Fungorum 2017 for additionl synonyms), *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, more than 150 species, type: *H. lactifluorum* (Schwein.) Tul. & C. Tul., asexual morph hyphomycetous, fungicolous, worldwide, see Jaklitsch et al (2008; new species), Lumbsch and Huhndorf (2010; outline), Põldmaa (2011; new species, red pigment), Seifert et al. (2011; morphology of asexual morphs), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2012, 2017; outline), Gea et al. (2016; pathogenicity of *Cladobotryum*), Jaklitsch et al. (2016a; classification, nomenclature), sequence data available, holotype of type: CBS H-19806 (as *Sphaeria lactifluorum* Schw., Syn. Fung. 1190-44 Herb.), ex-type strains are unavailable for type species.

Hyponectria Sacc. 1878 (= *Anisostomula* Höhn. 1919 *fide* Species Fungorum 2017), *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, c. 30 species, type: *H. buxi* (DC.) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhao and Zhao (2012; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), DNA sequences and cultures available (*fide* Winka and Eriksson 2000), type specimen of type: CBS H-4954.

Hypophloeda K.D. Hyde & E.B.G. Jones 1989, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *H. rhizospora* K.D. Hyde & E.B.G. Jones, asexual morph unknown, marine, mangrove roots, Brunei, Seychelles, see Jones et al. (2009b; key, description), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Hypospilina (Sacc.) Traverso 1913 (= *Hypospila* subdiv. Hypospilina Sacc. 1883 *fide* Species Fungorum 2017), *Valsaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *H. bifrons* (DC.) Traverso, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Hypotarzetta Donadini 1985, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *H. insignis* (Berthet & Riousset) Donadini, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Hypotrachyna (Vain.) Hale 1974 (= *Parmelia* sect. Hypotrachyna Vain. 1890 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 260 species, type: *H. brasiliana* (Nyl.) Hale, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Flakus et al. (2012; new species), Divakar et al. (2013a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Hypotrachynicola Etayo 2002, *Ascomycota* genera *incertae sedis*, one species, type: *H. rubra* Etayo, asexual morph unknown, lichenicolous, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable, holotype of the type: COL Etayo 16515.

Hypoxylon Bull. 1791 (= *Nodulisporium* Preuss 1849 *fide* Réblová et al. 2016c; see Wendt et al. 2017 for additional synonyms), *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, c. 140 species, type: *H. fragiforme* (Pers.) J. Kickx f., asexual morph formerly known in *Nodulisporium*, terrestrial, saprobes, mainly coprophilous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), Sir et al. (2016a; new species), Dai et al. (2017; new species), Wendt et al. (2017; phylogeny, resurrected *Hypoxylaceae*), cultures and sequences are available, needs generic revision as the genus comprises more than 1000 species epithets (Index Fungorum 2017).

Hypsostroma Huhndorf 1992, *Hypsostromataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *H. saxicola* Huhndorf, asexual morph unknown, saprobes, terrestrial, worldwide, see Mugambi and Huhndorf (2009a; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Hypsostromataceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available, cultures available for the type: SMH 5005, holotype of type species NY, Harris 26462.

Hysteridium P. Karst. 1905, *Ascomycota* genera *incertae sedis*, one species, type: *H. phragmitis* P. Karst., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hysterium Pers. 1791 (= *Pragmoparopsis* Höhn. 1917 *fide* Species Fungorum 2017), *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, 14 species, type: *H. pulicare* (Lightf.: Fr.) Pers., asexual morph unknown, saprobes, terrestrial, worldwide, see Boehm et al. (2009a, b, overview of genus), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tibpromma et al. (2017b; phylogeny), cultures and sequences are available, cultures available for type species CBS 123377, holotype of type: CBS H-5484.

Hysterobrevium E. Boehm & C.L. Schoch 2010, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, four species, type: *H. mori* (Schwein.) E.W.A. Boehm & C.L. Schoch, asexual morph coelomycetous (aposphaeria-like), saprobes, terrestrial, worldwide, see Boehm et al. (2009a, b; overview), Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), Tibpromma et al. (2017b; phylogeny), cultures and sequences are available, holotype and ex-type of type: BPI878733, CBS 123336.

Hysterocarina H. Zogg 1949, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, one species, type: *H. paulistae* H. Zogg, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hysterodifractum D.A.C. Almeida, Gusmão & A.N. Mill. 2014, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, one specie, type: *H. partisporum* D.A.C. Almeida, Gusmão & A.N. Mill, asexual morph unknown, saprobes, terrestrial, Brazil, see Almeida et al. (2014b; taxonomy), cultures and sequences are available, holotype of type: HUEFS:42865

Hysterodiscula Petr. 1942, *Ascomycota* genera *incertae sedis*, one species, type: *H. kalmiae* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hysteroglonium Rehm ex Lindau 1896, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, two species, type: *H. ovatum* (Cooke) Lindau, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hysterographium Corda 1842, *Pleosporomycetidae* genera *incertae sedis*, *Dothideomycetes*, two species, type: *H. elongatum* (Wahlenb.) Corda, asexual morph unknown, saprobes, terrestrial, worldwide, see Boehm et al. (2009a, b; taxonomy, DNA, phylogeny), Mugambi and Huhndorf (2009b; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; key to distinguish from other hysteriaceous genera), Kirk et al. (2013; genus accepted), Logesh et al. (2013; new species, India), cultures and sequences are available.

Hysteronaevia Nannf. 1984, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, twelve species, type: *H. holoschoeni* (De Not.) Nannf., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hysteropatella Rehm 1890, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, three species, type: *H. prostii* (Duby) Rehm, asexual morph unknown, saprobes, terrestrial, Switzerland, see Boehm et al. (2009a; phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as genus in *Hysteriaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013) did not accept as a genus in *Hysteriaceae*, Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are available, cultures available for the type species H.B. 9934b

Hysteropeltella Petr. 1923, *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *H. moravica* Petr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as *Dothideomycetes*, genera *incertae sedis*), Ariyawansa et al. (2013b; transferred to *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hysteropezizella Höhn. 1917, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, 19 species, type: *H. subvelata* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hysteropsis Rehm 1887, *Dothideomycetes* genera *incertae sedis*, four species, type: *H. culmigena* Rehm, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hysteropycnis Hilitzer 1929, *Ascomycota* genera *incertae sedis*, one species, type: need typification, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Hysterostegiella Höhn. 1917 (= *Hysteropezizella* sect. Hysterostegiella (Höhn.) Nannf. 1932; = *Stegopeziza* Höhn. 1917 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *H. fenestrata* (Roberge ex Desm.) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype and ex-type of type species unavailable.

Hysterostomella Speg. 1885 (= *Hysterostomina* Theiss. & Syd. 1915 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, 40 species, type: *H. guaranitica* Speg., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Hyweljonesia R.G. Shivas, Y.P. Tan, Marney & Abell 2016, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *H. queenslandica* R.G. Shivas, Y.P. Tan, Marney & Abell, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: BRIP 61322b.

Ialomitzia Gruia 1964, *Ascomycota genera incertae sedis*, one species, type: *I. cavernicola* Gruia, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Icmadophila Trevis. [nom. cons.] 1852 (= *Cystolobis* Clem. 1909; = *Glossodium* Nyl. 1855; = *Icmadophilomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Knightiella* Müll. Arg. 1886; = *Phycodiscis* Clem. 1909; = *Thelidea* Hue 1902 [1901]; = *Tupia* L. Marchand 1830 *fide* Species Fungorum 2017), *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, eight species, type: *I. aeruginosa* (Scop.) Trevis., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Idiocercus B. Sutton 1967, *Ascomycota* genera *incertae sedis*, two species, type: *I. pirozynskii* B. Sutton, coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, Australia, Tanzania, Sierra Leone, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type species IMI 107154a.

Idiomyces Thaxt. 1893, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *I. peyritschii* Thaxt., asexual morph unknown, biotrophic, terrestrial, Europe, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Idriella P.E. Nelson & S. Wilh. 1956 (= *Chloridiella* G. Arnaud 1954 [1953] *fide* Species Fungorum 2017), *Microdochiaceae*, *Xylariales*, *Sordariomycetes*, c. 30 species, type: *I. lunata* P.E. Nelson & S. Wilh., hyphomycetous, sexual morphs unknown, in soil, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2016b; DNA, phylogeny), cultures and sequences are available.

Idriellopsis Hern.-Restr. & Crous 2015, *Xylariales*, genera *incertae sedis*, *Sordariomycetes*, one species, type: *I. uncinospora* (R.F. Castañeda & W.B. Kendr.) Hern.-Restr. & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Hernández-Restrepo et al. (2016b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Igneocumulus A.W. Ramaley 2003, *Ascomycota* genera *incertae sedis*, ten species, type: *I. yuccae* A.W. Ramaley, asexual morph hyphomycetous (lecythophora-like), saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species UC 1713843.

Ijuhya Starbäck 1899 (= *Lepidonectria* Speg. 1910; = *Mollisia* subgen. *Peristomialis* W. Phillips 1887 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, 14 species, type: *I. vitrea* Starbäck, asexual morph acremonium-like, saprobes, terrestrial, worldwide, see Lechat and Courtecuisse (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Lechat and Fournier (2017; new species), cultures and sequences are available.

Illosporiopsis D. Hawksw. 2001, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *I. christiansenii* (B.L. Brady & D. Hawksw.) D. Hawksw., lichenicolous, Europe, terrestrial, see Seifert et al. (2011; genus accepted), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: K(M)-IMI 226836.

Illosporium Mart. 1817 (= *Lepra* Willd. 1787 *fide* Species Fungorum 2017), *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, 18 species, type: *I. carneum* Fr., asexual morph hyphomycetous, lichenicolous, USA and Europe, see Pindi (2012; marine), Kossowska and Szczepańska (2013; Poland), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ilyomyces F. Picard 1917, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *I. mairei* F. Picard, asexual morph unknown, biotrophic, terrestrial, Europe, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ilyonectria P. Chaverri & C. Salgado 2011, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 22 species, type: *I. radicicola* (Gerlach & L. Nilsson) P. Chaverri & Salgado, root pathogenic or saprobes, cosmopolitan, see Chaverri et al. (2011; phylogeny), Cabral et al. (2012; new species), Lombard et al. (2015b; phylogeny), cultures and sequences are available, ex-type of type species CBS 264.65.

Ilytheomyces Thaxt. 1917, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 15 species, type: *I. elegans* Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Imaia Trappe & Kovács 2008, *Morchellaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *I. gigantea* (S. Imai) Trappe & Kovács, asexual morph unknown, ectomycorrhizal, saprobes, terrestrial, North American, East Asia, see Kovács et al. (2008; DNA, taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), cultures and sequences are available, Holotype and ex-type of type species unavailable.

Imazekia Tak. Kobay. & Y. Kawabe 1992, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *I. ryukyuensis* Tak. Kobay. & Y. Kawabe, asexual morph unknown, from living leaves, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable Holotype of type species TFM, FPH-7163.

Imicles Shoemaker & Hambl. 2001, *Ascomycota* genera *incertae sedis*, six species, type: *I. leptospora* (Sacc. & Roum.) Shoemaker & Hambl., hyphomycetous, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, compare with *Sporidesmium*.

Immersaria Rambold & Pietschm. 1989, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, eight species; type: *I. athroocarpa* (Ach.) Rambold & Pietschm., lichenized, Asia, Africa, Europe, Australia, see Lumbsch and Huhndorf (2010; outline), Valadbeigi et al. (2011b; new species), Kirk et al. (2013; genus accepted), Pandit (2014; India), Gasparyan et al. (2016; Armenia), Lücking et al. (2017a; classification), cultures and sequences are available.

Immersidiscosia Kaz. Tanaka, Okane & Hosoya 2011, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *I. eucalypti* (Pat.) Kaz. Tanaka, Okane & Hosoya, sexual morph unknown, saprobes, terrestrial, France, Japan, Tunisia, see Tanaka et al. (2011a; morphology, phylogeny), Jaklitsch et al. (2016a; phylogeny), cultures and sequences are available, holotype of the type species in FH.

Immersiella A.N. Mill. & Huhndorf 2004, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *I. immersa* (P. Karst.) A.N. Mill. & Huhndorf, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type species SMH2589, SMH4104, holotype and ex-type of type species unavailable.

Immersiporthe S.F. Chen, M.J. Wingf. & Jol. Roux [2012] 2013, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *I. knoxdaviesiana* S.F. Chen, M.J. Wingf. & Jol. Roux, coelomycetous, sexual morph unknown, pathogens, terrestrial, South Africa, see Chen et al. (2013e; taxonomy, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype and the ex-type of type: PREM 60738, CMW37314 =CBS132862.

Immersisphaeria Jaklitsch 2007, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *I. eichleriana* (Bres.) Jaklitsch, asexual morph unknown, pathogens, terrestrial, South Africa, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Daranagama et al. (2016d; accepted in *Xylariales*), cultures and sequences are unavailable.

Immotthia M.E. Barr 1987, *Dothideomycetes* genera *incertae sedis*, one species, type: *I. hypoxylon* (Ellis & Everh.) M.E. Barr, asexual morph coniothyrium-like, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline, misspelled as *Immotthia*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Imshaugia F.C. Mey. 1985, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, seven species, type: *I. aleurites* (Ach.) S.L.F. Mey., lichenized, boreal and temperate regions of the Northern Hemisphere and from cool-montane regions in the Southern Hemisphere, see Hauck et al. (2009; acid tolerance), Lumbsch and Huhndorf (2010; outline), Thell et al. (2012; description, phylogeny), Kirk et al. (2013; genus accepted), Kharpukhaeva and Mukhortova (2016; Baikal), Lücking et al. (2017a; classification), sequences are available.

Inaequalispora L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *I. prestonii* (M.C. Tulloch) L. Lombard & Crous, hyphomycetous, sexual morph unknown, from forest soil, terrestrial, Malaysia, see Lombard et al. (2016; taxonomy, phylogeny), holotype and ex-isotype of the type: CBS H-7392, CBS 175.73.

Incertomyces Egidi & Zucconi 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *I. perditus* Egidi & Zucconi, hyphomycetous, sexual morph unknown, rock-inhabiting fungus, Italy, see Egidi et al. (2014; taxonomy), Wijayawardene et al. (2014c, 2017; outline), type: CBS 136105 =CCFEE 5385, cultures and sequences are available.

Incrucipulum Baral 1985, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *I. ciliare* (Schrad.) Baral, asexual morph unknown, saprobes, terrestrial, temperate, see Hosoya et al. (2010; new species, Japan, DNA), Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Incrupila Raitv. 1970, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *I. aspidii* (Lib.) Raitv., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Induratia Samuels, E. Müll. & Petrini 1987, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *I. apiospora* Samuels, E. Müll. & Petrini, asexual morph nodulosporium-like, saprobes, New Zeland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Daranagama et al. (2017; morphology, taxonomy, key), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), sequences are unavailable.

Inesiosporium R.F. Castañeda & W. Gams 1997, *Ascomycota* genera *incertae sedis*, two species, type: *I. longispirale* (R.F. Castañeda) R.F. Castañeda & W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; valid genus), Argôlo Magalhães et al. (2014; Bahia), Castañeda-Ruiz et al. (2016a; distribution), holotype: INIFAT C84/107, cultures and sequences are unavailable, compare with *Ceratophorum* and *Zalerion*.

Inflatispora Yin. Zhang, J. Fourn. & K.D. Hyde 2011, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *I. pseudostromatica* Ying Zhang, J. Fourn. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, France and Thailand, see Zhang et al. (2011e; taxonomy, phylogeny), Tibpromma et al. (2017b; taxonomy, phylogeny), cultures and sequences are available, holotype and ex-type of type: IFRD 8989, CBS 123110.

Infundibulomyces Plaingam, Somrith. & E.B.G. Jones 2003, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, two species, type: *I. cupulata* Plaingam, Somrith. & E.B.G. Jones, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available, epitype and ex-epitype of the type: SFC 1615, BCC 13400.

Infundichalara Réblová & W. Gams 2011, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *I. microchona* (W. Gams) Réblová & W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Netherlands, Czech Republic, see Réblová and Gams (2011; morphology, phylogeny), Koukol (2012; morphology, new species), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype and ex-type strains of the type: CBS-H 19895, CBS 261.82.

Ingaderia Darb. 1897 (= *Darbishirella* Zahlbr. 1898; = *Dictyographa* Darb. 1897 *fide* Species Fungorum 2017), *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *I. pulcherrima* Darb., lichenized, Chile, see Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011; phylogeny), Notov (2014; outline), Lücking et al. (2017a; classification), sequences are available.

Ingvariella Guderley & Lumbsch 1997, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *I. bispora* (Bagl.) Guderley & Lumbsch, lichenized, arid and semi-arid area, see Lumbsch and Huhndorf (2010; outline), Fernández-Brime et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Inifatiella R.F. Castañeda, *Ascomycota* genera *incertae sedis*, one species, type: *I. nectandrae* R.F. Castañeda, coelomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Inocyclus Theiss. & Syd. 1915 (= *Aspidothea* Syd. 1927; = *Ellimonia* Syd. 1930; = *Fraserula* Syd. 1938 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, eight species, type: *I. psychotriae* (Syd. & P. Syd.) Theiss. & Syd, asexual morph unknown, epiphytes, pathogens, biotrophic, terrestrial, worldwide, see Hofmann (2009; review, placed in *Parmulariaceae*), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; review, keys), Wijayawardene et al. (2014c; outline), Guatimosim et al. (2015; phylogeny), cultures and sequences are available.

Inoderma (Ach.) Gray 1821 (= *Phaeothrombis* Clem. 1909; = *Verrucaria* sect. Inoderma (Ach.) W. Mann 1825;

= *Wernera* Zschacke ex Werner 1934; = *Werneromyces* Werner 1976 *fide* Species Fungorum 2017), *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *I. byssaceum* (Weigel) Gray, lichenized, temperate Europe, North America, Eastern Siberia, Japan, and eastern Africa (Uganda), see Frisch et al. (2015; phylogeny, key, description), Lücking et al. (2017a; classification), sequences are available.

Intercalarispora J.L. Crane & Schokn. 1983, *Ascomycota* genera *incertae sedis*, one species (probably more described as synasexual morphs of *Helicoma*, *Monodictys* or *Xenosporium*), type: *I. nigra* J.L. Crane & Schokn., hyphomycetous, sexual morph unknown (probably *Tubeufia*), saprobes, on rotten submerged wood, America and Africa, see Hyde et al. (2011; checklist), Kirk et al. (2013; valid genus), cultures and sequences are unavailable, holotype of type: ILLS 43047.

Intralichen D. Hawksw. & M.S. Cole 2002, *Ascomycota* genera *incertae sedis*, four species, type: *I. christiansenii* (D. Hawksw.) D. Hawksw. & M.S. Cole, sexual morph unknown, lichenicolous, North temperate, see Seifert et al. (2011; genus accepted), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Involucropyrenium Breuss 1996, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, nine species, type: *I. waltheri* (Kremp.) Breuss, lichenized, Europe, North America, Asia, see Prieto et al. (2010a; key, description), Prieto et al. (2012; phylogeny), Breuss (2016; nomenclature), Lücking et al. (2017a; classification), sequences are available, holotype of type species unavailable.

Involucroscypha Raitv. 2002, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, ten species, type: *I. involucrata* (B. Erikss.) Raitv., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type species TAA165831.

Iodophanus Korf 1967, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, 16 species, type: *I. carneus* (Pers.) Korf, asexual morph unknown, coprophilous, terrestrial, worldwide, see Schmitt et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, type material of type species CBS H-6320.

Iodosphaeria Samuels, E. Müll. & Petrini 1987, *Iodosphaeriaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *I. phyllophila* (Mouton) Samuels, E. Müll. & Petrini, asexual morph hyphomycetous (selenosporella-like and ceratosporium-like), saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype of the type: PDD 47872.

Iodowynnea Medel, Guzmán & S. Chacón 1996, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *I. auriformis* (Pat. ex Le Gal) Medel, Guzmán & S. Chacón, asexual morph unknown, coprophilous, terrestrial, worldwide, see Schmitt et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Ionaspis Th.Fr. 1871 (= *Aphragmia* Trevis. 1880; = *Durietzia* Gyeln. 1935 *fide* Species Fungorum 2017), *Hymeneliaceae*, *Hymeneliales*, *Lecanoromycetes*, seven species, type: *I. chrysophana* (Körb.) Th. Fr., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Ionophragmium Peres 1961, *Ascomycota* genera *incertae sedis*, one species, type: *I. notatum* Peres & L. Xavier, coelomycetous, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, compare with *Asterostomella*, holotype of type: IMUR 20676.

Ioplaca Poelt 1977, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *I. sphalera* Poelt, lichenized, Himalayas, see Lumbsch and Huhndorf (2010; outline), Arup et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); cultures and sequences are available.

Iraniella Petr. 1949, *Sordariomycetes* genera *incertae sedis*, one species, type: *I. rechingeri* Petr., asexual morph unknown, saprobes, terrestrial, Iran, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Irenopsis F. Stevens 1927 (= *Meliola* subgen. *Irenopsis* (F. Stevens) Cif. 1938 *fide* Species Fungorum 2017), *Meliolaceae*, *Meliolales*, *Sordariomycetes*, 75 species, type: *I. tortuosa* (G. Winter) F. Stevens, asexual morph produced from the hyphae, saprobes, pathogens, terrestrial, worldwide, see Hosagoudar and Archana (2010b; new species, India), Hosagoudar and Sabeena (2010; new species, India), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pinho et al. (2013; new species, Brazil, DNA, phylogeny), Hosagoudar et al. (2014; new species, Andaman Islands), Hongsanan et al. (2015d; new species, taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Rodríguez et al. (2015; new species), cultures and sequences are available, holotype and ex-type of type species unavailable.

Iridinea Velen. 1934, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, two species, type: need typification,

asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, data inadequate.

Irpicomyces Deighton 1969, *Ascomycota* genera *incertae sedis*, three species, type: *I. schiffnerulae* Deighton, hyphomycetous, sexual morph unknown, on leaves or twigs, Malaysia and Japan, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species IMI 54929b.

Irydyonia Racib. 1900, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *I. filicis* Racib., asexual morph unknown, saprobes, Java, see Lumbsch and Huhndorf (2010; outline), holotype and ex-type of type species unavailable.

Isalonactis Ertz, Tehler, Eb. Fisch., Killmann, Razafin. & Sérus. 2014, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *I. madagascariensis* Ertz, Tehler, Eb. Fisch., Killmann, Razafin. & Sérus., sexual morph with apothecioid ascomata, lichenized, terrestrial, Madagascar, see Ertz et al. (2014c; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available, lectotype and ex-type strain of type: Ertz 13024.

Isaria Pers. 1794 (= *Alphitomyces* Reissek 1856; = *Amphichorda* Fr. 1825; = *Coremiopsis* Sizova & Suprun 1957; = *Beejasamuha* Subram. & Chandrash. 1977 *fide* Species Fungorum 2017), *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, c. 13 species, type: *I. farinosa* (Holmsk.) Fr., hyphomycetous, entomogenous, worldwide, see Kim et al. (2010; thermotolerance), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, epitype and ex-type of type: CBS-H6586, CBS 111113.

Isariella Henn. 1909, *Ascomycota* genera *incertae sedis*, two species, type: *I. auerswaldiae* Henn., hyphomycetous, saprobes, terrestrial, Brazil, Dominican Republic, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Atractilina*, sequences are unavailable, holotype of type species S-F40445.

Ischnostroma Syd. & P. Syd. 1914, *Ascomycota* genera *incertae sedis*, one species, type: *I. merrillii* Syd. & P. Syd., coelomycetous, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Trachythyriolum*, sequences are unavailable.

Isia D. Hawksw. & Manohar. 1978, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *I. neocaledoniensis* (C. Moreau) D. Hawksw. & Manohar, on plant material, Asia and Pacific, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Isomunkia Theiss. & Syd. 1915, *Dothideomycetes* genera *incertae sedis*, one species, type: *I. pulvinula* (Pat.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, Ecuador, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Isothea Fr. 1849 (= *Didymella* Speg. 1879 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *I. rhytismoides* (Bab.) Fr., asexual morph unknown, from living leaves, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), DNA sequences are unavailable.

Isthmoconidium Etayo & Berger 2013, *Ascomycota* genera *incertae sedis*, one species, type: *I. bacidiicola* Etayo & F. Berger, coelomycetous, sexual morph unknown, parasymbiont on *Bacidia*, terrestrial, Caribbean, see Etayo and Berger (2013; morphology, distinction of similar lichenicolous genera), sequences are unavailable, holotype of the type species LI, F. Berger 22323 & S. La Greca.

Isthmolongispora Matsush. 1971, *Ascomycota* genera *incertae sedis*, eleven species, type: *I. intermedia* Matsush., hyphomycetous, saprobes, aquatic and terrestrial, Argentina, Australia, Brazil, China, Cuba, Hungary, Japan, Malaysia, Papua New Guinea, Peru, Portugal, Scotland, Taiwan, United Kingdom, Venezuela and West Indies, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Isthmophragmospora* and *Wiesneriomyces*, cultures and sequences are available, holotype of type: MFC-3052.

Isthmophragmospora Kuthub. & Nawawi 1992, *Ascomycota* genera *incertae sedis*, two species, type: *I. verruculosa* Kuthub. & Nawawi, hyphomycetous, sexual morph unknown, saprobes, on submerged rotten angiosperms twigs, on submerged decaying leaves in a black water stream, Malaysia and Brazil, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Monteiro et al. (2014a; new species), sequences are unavailable, holotype of type: IMI 344358.

Isthmospora F. Stevens 1918 (= *Carlosia* G. Arnaud 1954 [1953] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *I. spinosa* F. Stevens, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Pantropical, see Seifert et al. (2011; morphology, accepted as a genus in *Microthyriaceae*),

Wijayawardene et al. (2012, 2014c; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Isthmosporella Shearer & J.L. Crane 1999, *Dothideomycetes* genera *incertae sedis*, one species, type: *I. pulchra* Shearer & J.L. Crane, asexual morph unknown, saprobes, fresh water, USA, see Lumbsch and Huhndorf (2010; outline, placed in *Phaeosphaeriaceae*), Zhang et al. (2012e; placed in *Pleosporales*), Hyde et al. (2013; accepted in *Phaeosphaeriaceae*), Phookamsak et al. (2014c; excluded from *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*), sequences are unavailable, holotype of type: ILLS 53086.

Isthmotricladia Matsush. 1971, *Ascomycota* genera *incertae sedis*, three species, type: *I. laeensis* Matsush., hyphomycetous, saprobes, aquatic and terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Articulospora*, holotype of type: MFC-2803, cultures are available.

Italiomyces Senan., Camporesi & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *I. centaureii* Senan., Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), holotype of the type: MFLU 16–2866, cultures and sequences are available.

Ityorhoptrum P.M. Kirk 1986, *Ascomycota* genera *incertae sedis*, four species, type: *I. verruculosum* (M.B. Ellis) P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Whitton et al. (2012a; new species), Wijayawardene et al. (2012, 2017; outline), Mel'nik et al. (2014; key species), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ivanpisutia S.Y. Kondr., L. Lokös & Hur 2015, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *I. oxneri* S.Y. Kondr., Lőkös & Hur, lichenized, Russia, see Kondratyuk et al. (2015e; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type: KoLRI 020233.

Iwilsoniella E.B.G. Jones 1991, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *I. rotunda* E.B.G. Jones, asexual morph unknown, marine on wood, Great Britain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: IMI 271838.

Iyengarina Subram. 1958, *Ascomycota* genera *incertae sedis*, three species, type: *I. elegans* Subram., hyphomycetous, sexual morph unknown, saprobes, lignicolous, India, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of type: MUBL 2015 (Madras, India) (?IMI 113126).

Jackrogersella L. Wendt, Kuhnert & M. Stadler 2017, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, seven species, type: *J. multiformis* (Fr. Fr.) L. Wendt, Kuhnert & M. Stadler, four species, asexual morph hyphomycetous, terrestrial, saprobes, cosmopolitan, see Wendt et al. (2017; taxonomy, phylogeny), cultures and sequences are available.

Jacobsonia Boedijn 1935, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *J. glauca* Boedijn, asexual morph unknown, saprobes, terrestrial, Sumatra, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Jaffuela Speg. 1921, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *J. chilensis* Speg., asexual morph unknown, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothioraceae*), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; transferred to *Pseudoperisporiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Jafnea Korf 1960, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, four species, type: *J. fusicarpa* (W.R. Gerard) Korf, saprobes, terrestrial, north temperate, Australia, Tasmania, see Lumbsch and Huhndorf (2010; outline), Gates and van Vooren (2016; new species), cultures and sequences are available.

Jahniella Petr. 1921, *Ascomycota* genera *incertae sedis*, three species, type: *J. bohemica* Petr., coelomycetous, saprobe, pathogen, terrestrial, Czechoslovakia, France, Germany, Russia, Ukraine, see Campbell et al. (2007; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Septoria*, sequences are unavailable, holotype of type: IMI 204129.

Jahnula Kirschst. 1936, *Aliquandostipitaceae*, *Jahnulales*, *Dothideomycetes*, 16 species, type: *J. aquatica* (Plöttner & Kirschst.) Kirschst., asexual morph unknown, saprobes, aquatic, worldwide, see Raja et al. (2008a; new species), Sivichai and Boonyuen (2010; new species), Sivichai et al. (2011; asexual morph), Jones et al. (2012; phylogeny), Fournier et al. (2015; new species), cultures and sequences are available, GenBank Number: NR_120015 (*Jahnula bipileata*), holotype and ex-type of type species unavailable.

Jalapriya D'souza, Su, Luo & K.D. Hyde 2016, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *J. pulchra* D'souza, Su, Luo & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, aquatic, cosmopolitan, see Boonmee et al. (2016a; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Jamesiella Lücking, Sérus. & Vězda 2005, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *J. anastomosans* (P. James & Vězda) Lücking, Sérus. & Vězda, lichenized, cosmopolitan, see Hauck (2009, Europe), Lumbsch and Huhndorf (2010; outline), Motiejūnaitė (2011; Lithuania), Yatsyna and Motiejūnaitė (2015; Belarus), Lücking et al. (2017a; classification), sequences are unavailable, holotype of type species unavailable.

Janannfeldtia Subram. & Sekar 1993, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *J. karwarensis* Subram. & Sekar, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable, isotype of the type: IMI 324682.

Janetia M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, 22 species, type: *J. euphorbiae* M.B. Ellis, hyphomycetous, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Sporidesmium* and *Stanjehughesia*, cultures and sequences are available but lacking for the type species, holotype of type: IMI 163941.

Japewia Tønsberg 1990, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *J. tornoënsis* (Nyl.) Tønsberg, lichenized, cool temperate Northern Hemisphere, see Czarnota (2009; Carpathians), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Allen and Lendemer (2015; key), Lücking et al. (2017a; classification), cultures and sequences are available.

Japewiella Printzen 1999, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *J. carrollii* (Coppins & P. James) Printzen, lichenized, humid temperate and subtropical regions, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Allen and Lendemer (2015; new species, key), Lücking et al. (2017a; classification), sequences are unavailable.

Jarmania Kantvilas 1996, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *J. tristis* Kantvilas, lichenized, Australia, New Zealand, Kerguelen Islands, see Øvstedal and Gremmen (2009; Kerguelen Islands), Lumbsch and Huhndorf (2010; outline), Ludwig and Kantvilas (2015; New Zealand), Lücking et al. (2017a; classification), sequences are unavailable.

Jarxia D. Hawksw. 1989, *Naetrocymbaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *J. thelenula* (Müll. Arg.) D. Hawksw., on twigs, terrestrial, Caribbean, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Naetrocymbaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Jaklitsch et al. (2016a; position), sequences are unavailable, holotype of type species G.

Jasonhuria S.Y. Kondr., L. Lőkös & S.O. Oh 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *J. bogilana* (Y. Joshi & Hur) S.Y. Kondr., L. Lőkös, J. Kim, A.S. Kondr. & S.O. Oh, lichenized, South Korea, see Kondratyuk et al. (2015h; genera proposed), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species KoLRI, Hur 041679.

Jattaea Berl. 1900 (= *Phragmocalosphaeria* Petr. 1923; = *Wegelina* Berl. 1900 *fide* Species Fungorum 2017), *Calosphaeriaceae*, *Calosphaeriales*, *Sordariomycetes*, twelve species, type: *J. algeriensis* Berl., asexual morph hyphomycetous (phialophora-like), from living leaves, terrestrial, worldwide, see Marincowitz et al. (2008; new species), Lumbsch and Huhndorf (2010; outline), Réblová et al. (2011; taxonomy, revision, new species), Kirk et al. (2013; genus accepted), Réblová et al. (2015b; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Abdel-Wahab et al. (2017, new species), cultures and sequences are available, verified culture for type species STE-U 6201 (*fide* Damm et al. 2008b).

Javaria Boise 1984, *Astrosphaeriellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *J. samuelsii* Boise, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; morphology, phylogeny), Kirk et al. (2013; genus accepted), Tian et al. (2015; morphology, nomenclature, phylogeny), Phookamsak et al. (2015b; phylogeny), sequences are unavailable.

Javonarxia Subram. ex Subram. 1995 (= *Javonarxia* Subram. 1992 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *J. triseptata* Subram. ex Subram., hyphomycetous, sexual morph unknown, saprobes, on twigs, Malaysia, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of type: MUBL 3124.

Jayarambhatia J. Pratibha 2013, *Ascomycota* genera *incertae sedis*, one species, type: *J. mangrovei* J. Pratibha, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Pratibha (2013; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, holotype of the type: HCIO 51502.

Jenmania W. Wächt. 1897 (= *Jenmaniomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, two species, type: *J. goebelii* W. Wächt., lichenized, British Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species unknown.

Jerainum Nawawi & Kuthub. 1992, *Ascomycota* genera *incertae sedis*, one species, type: *J. triquetrum* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, on submerged rotten twigs, Malaysia, see Hyde et al. (2011; checklist), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of type species KLU 300009.

Jobellisia M.E. Barr 1993, *Jobellisiaceae*, *Calosphaeriales*, *Sordariomycetes*, five species, type: *J. luteola* (Ellis & Everh.) M.E. Barr, asexual morph unknown, saprobes, terrestrial, fresh water, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Untereiner et al. (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, GenBank Number: NR_138381 (*Jobellisia guangdongensis*), holotype of the type: J.P. Morgan 1109.

Joergensenia Passo, Stenroos & Calvelo 2008, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *J. cephalodina* (Zahlbr.) Passo, S. Stenroos & Calvelo, lichenized, Chile, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type: UPS L-78746.

Johansonia Sacc. 1889 (= *Johansoniella* Bat., J.L. Bezerra & Cavalc. 1966 *fide* Species Fungorum 2017), *Saccardiaceae*, *Ascomycota* families *incertae sedis*, c. twelve species, type: *J. setosa* (G. Winter) Sacc., asexual morph unknown, saprobes, terrestrial, widespread (tropical), see Crous et al. (2010a; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for type species.

Johnalcornia Y.P. Tan & R.G. Shivas 2014, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *J. aberrans* (Alcorn) Y.P. Tan & R.G. Shivas, asexual morph hyphomycetous, associated with leaf spots, terrestrial, Australia, see Tan et al. (2014; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type: BRIP 16281, isotype: IMI 335210, ex-isotype: CBS 510.91.

Josefpoeltia S.Y. Kondr. & Kärnefelt 1997, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *J. boliviensis* S.Y. Kondr. & Kärnefelt, lichenized, Peru, Chile, see Gaya et al. (2008; phylogeny), Arup et al. (2013, taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species MIN (2732).

Jubispora B. Sutton & H.J. Swart 1986, *Ascomycota* genera *incertae sedis*, one species, type: *J. acaciae* B. Sutton & H.J. Swart, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2016b, 2017; morphology, outline), sequences are unavailable, holotype of the type: IMI 167364.

Juglanconis Voglmayr & Jaklitsch 2017, *Juglanconidaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *J. juglandina* (Kunze) Voglmayr & Jaklitsch, asexual morph coelomycetous, saprobes, Europe, see Voglmayr et al. (2017; taxonomy), holotype: PRM 935803, cultures and sequences are available.

Jugulospora N. Lundq. 1972 (= *Coscinospora* Mirza 1963 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *J. rotula* (Cooke) N. Lundq., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, cultures available for the type species ATCC 38359, type material of type species CBS H-13717.

Julella Fabre 1879 (= *Catharinia* (Sacc.) Sacc. 1895; = *Hyalospora* Nieuwl. 1916; = *Peltosphaeria* Berl. 1888; = *Pleospora* subgen. Catharinia Sacc. 1883; = *Polyblastiopsis* Zahlbr. 1903 *fide* Species Fungorum 2017), *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, c. 20 species, type: *J. buxi* Fabre, asexual morph unknown, saprobes, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2011b; phylogeny), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014e; phylogeny), cultures and sequences are available, holotype of type: S F599.

Jumillera J.D. Rogers, Y.M. Ju & F. San Martín 1997, *Lopadostomataceae*, *Xylariales*, *Sordariomycetes*, eight species, type: *J. mexicana* J.D. Rogers, Y.M. Ju & F. San Martín, asexual morph libertella-like, with geniculosporium-like synanamorph, saprobes, Rio Grande do Sul, Hawaiian Island, Mexico, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Daranagama et al. (2017 morphology, taxonomy, key), sequences are unavailable,

placement in *Lopadostomataceae* needs to be confirmed by molecular data.

Juncaceicola Tennakoon, Camporesi, Phook. & K.D. Hyde 2016, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, eight species, type: *J. luzulae* Tennakoon, Camporesi, Phook. & K.D. Hyde, asexual morph unknown, saprobes, Italy, see Tennakoon et al. (2016a; taxonomy, phylogeny), Hyde et al. (2016; new species, phylogeny), holotype of the type: HKAS 93700, cultures and sequences are available.

Juncigena Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1997 (= *Moheitospora* Abdel-Wahab et al. 2010 *fide* Réblová et al. 2016c), *Juncigenaceae*, *Torpedosporales*, *Sordariomycetes*, two species, type: *J. adarca* Kohlm., Volkm.-Kohlm. & O.E. Erikss., asexual morph formerly known in *Moheitospora*, saprobes, marine, widespread, see Abdel-Wahab et al. (2010, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Junctospora Minter & Hol.-Jech. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *J. pulchra* Minter & Hol.-Jech., hyphomycetous, sexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species IMI 243573.

Junewangia W.A. Baker & Morgan-Jones 2002, *Ascomycota* genera *incertae sedis*, four species, type: *J. sphaerospora* W.A. Baker & Morgan-Jones, sexual morph unknown, saprobes, terrestrial, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype of type species AUA.

Kabatia Bubák. 1904 (= *Colletotrichella* Höhn. 1916; = *Pseudogloeosporium* Jacz. 1917 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, ten species, type: *K. latemarensis* Bubák, coelomycetous, pathogen, terrestrial, Armenia, Canada, China, Czechoslovakia, Germany, Italy, Japan, Poland, Russia, Spain, Scotland, Switzerland, Turkey, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), compare with *Leptothyrium*, sequences are unavailable, holotype of type: IMI 213594.

Kabatiella Bubák 1907 (= *Exobasidiopsis* Karak. 1922 *fide* Species Fungorum 2017), *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, 18 species, type: *K. microsticta* Bubák, hyphomycetous, sexual morph unknown, saprobes, pathogen, terrestrial, worldwide, see Simon et al. (2009; DNA), Seifert et al. (2011; morphology), Bai et al. (2012; pathogens), Bills et al. (2012; new species), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; genus accepted), cultures and sequences are available.

Kabatina R. Schneid. & Arx 1966, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, five species, type: *K. thujae* R. Schneid. & Arx, hyphomycetous, sexual morph unknown, saprobes, pathogen, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; accepted as a genus in *Dothideaceae*), cultures and sequences are available.

Kacosphaeria Speg. 1887, *Calosphaeriaceae*, *Calosphaeriales*, *Sordariomycetes*, one species, type: *K. antarctica* Speg., asexual morph unknown, from living leaves, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type species unavailable.

Kaernefia S.Y. Kondr., Elix, A. Thell & Hur 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *K. kaernefeltii* (S.Y. Kondr., Elix & A. Thell) S.Y. Kondr., A. Thell, Elix, J. Kim, A.S. Kondr. & J.-S. Hur, lichenized, Australia, see Kondratyuk et al. (2013a; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Kainomyces Thaxt. 1901, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *K. isomali* Thaxt., asexual morph unknown, biotrophic, terrestrial, Western Africa, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kalaallia Alstrup & D. Hawksw. 1990, *Dacampiaceae*, *Dothideomycetes* families *incertae sedis*, one genus, type: *K. reactiva* Alstrup & D. Hawksw., on lichens, Europe, see Etayo and Sancho (2008; synonym of *Opegrapha*, *Roccellaceae*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, holotype of type: C.

Kalaharituber Trappe & Kagan-Zur 2005, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *K. pfeilii* (Henn.) Trappe & Kagan-Zur, mycorrhizal, terrestrial, see Adeleke and Dames (2014; interaction with bacteria), Trappe et al. (2008; desert truffles), cultures and sequences are available, holotype and ex-type of type species unavailable.

Kalamarospora G. Delgado 2010 [2011], *Ascomycota* genera *incertae sedis*, one species, type: *K. multiflagellata* G. Delgado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline),

cultures and sequences are unavailable, holotype of the type: BPI 879811A.

Kalapuya M.J. Trappe, Trappe & Bonito 2010, *Morchellaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *K. brunnea* M.J. Trappe, Trappe & Bonito, asexual morph unknown, epigeous, saprobes, mycorrhizal, terrestrial, Italy, USA, see Trappe et al. (2010a; DNA, phylogeny), Jaklitsch et al. (2016a; accepted as a genus in *Morchellaceae*), cultures and sequences are available.

Kalbiana Henssen 1988, *Verrucariales* genera *incertae sedis*, *Eurotiomycetes*, one species, type: *K. brasiliensis* Henssen, lichenized, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Kalbographa Lücking 2007, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *K. caracasana* (Müll. Arg.) Lücking, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Kalb et al. (2009; Thailand), Plata et al. (2012a; placed in family), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, holotype of type species unavailable.

Kalchbrenneriella Diederich & M. S. Christ. 2002, *Ascomycota* genera *incertae sedis*, one species, type: *K. cyanescens* (Kalchbr.) Diederich & M.S. Christ., hyphomycetous, sexual morph unknown, lichenicolous, non-lichenized, terrestrial, Europe, North America and Papua New Guinea, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), sequences are unavailable.

Kaleidosporium Van Warmelo & B. Sutton 1981, *Ascomycota* genera *incertae sedis*, one species, type: *K. fenestratum* (Ellis & Everh.) Van Warmelo & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2016b; morphology), cultures and sequences are unavailable.

Kallichroma Kohlm. & Volkm.-Kohlm. 1993, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, type: *K. tethys* (Kohlm. & E. Kohlm.) Kohlm. & Volkm.-Kohlm., four species, asexual morph unknown, saprobes, marine, tropical regions of the Atlantic, Indian and Pacific Oceans and east coast of Australia, see Dethoup and Manoch (2009; Thailand), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Abdel-Wahab et al. (2016; new species, phylogeny), cultures and sequences are available.

Kallistoskypha Pfister, Agnello, Lantieri & LoBuglio 2013, *Caloscyphaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *K. incarnata* (Duvernoy & Maire) Pfister, Agnello, Lantieri & LoBuglio, on soil associated with *Eucalyptus*, Mediterranean region, see Pfister et al. (2013; proposed genera), sequences are unavailable.

Kalmusia Niessl 1872 (= *Dendrothyrium* Verkley et al. 2013; = *Diapleella* Munk 1953 *fide* Wijayawardene et al. 2014c; Species Fungorum 2017), *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 15 species, type: *K. ebuli* Niessl, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genera in *Didymosphaeriaceae*), Ariyawansa et al. (2014e; taxonomy, phylogeny), Wijayawardene et al. (2014c, 2016b; phylogeny, taxonomy, outline, nomenclature), Zhang et al. (2014d; neotypified *Kalmusia ebuli*), Liu et al. (2015a; new species, Italy), Tanaka et al. (2015; phylogeny), cultures and sequences are available, neotype and ex-neotype culture for type: BJFC 200201, CBS 123120.

Kalmusibambusa Phook., Tennakoon, Thambug. & K.D. Hyde 2017, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *K. triseptata* Phook., Tennakoon, & K.D. Hyde, asexual morph unknown, saprobes, Thailand, see Thambugala et al. (2017b; taxonomy, phylogeny), holotype of the type: MFLU 12–2473.

Kamalomyces R.K. Verma, N. Sharma & Soni 2008, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, three species, type: *K. indicus* R.K. Verma, N. Sharma & Soni, asexual morph unknown, saprobes, India, see Boonmee et al. (2014b; taxonomy), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Kamatella Anahosur 1969, *Ascomycota* genera *incertae sedis*, one species, type: *K. indica* Anahosur, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, India, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of type species unavailable.

Kameshwaromyces Kamal, R.K. Verma & Morgan-Jones 1986, *Ascomycota* genera *incertae sedis*, two species, type: *K. globosus* Kamal, R.K. Verma & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Verma et al. (2008; new species, India), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Kananascus Nag Raj 1984, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, three species, type: *K. verrucisporus* Nag Raj, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Kantvilasia P.M. McCarthy, Elix & Sérus. 2000, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *K. hians* P.M. McCarthy, Elix & Sérus., lichenized, Australia, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable, holotype of type species HO 445410.

Kapooria J. Reid & C. Booth 1989, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *K. musarum* (J.N. Kapoor) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type species unknown.

Karschia Körb. 1865, *Asterinales* genera *incertae sedis*, *Dothideomycetes*, four species, type: *K. talcophila* (Ach.) Körb., asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Muggia et al. (2013; phylogeny), Thambugala et al. (2014b; transferred to *Lichenotheliaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Lichenotheliaceae*), Ertz and Diederich (2015; phylogeny, accepted as *Asterinales*), cultures and sequences are available.

Karstenella Harmaja 1969, *Karstenellaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *K. vernalis* Harmaja, saprobes, terrestrial, Europe (Finland) and North America (New Mexico), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pfister et al. (2013; genus accepted), cultures and sequences are available, holotype of type species unavailable.

Karstenia Fr. 1885 (= *Chailletia* P. Karst. 1871 *fide* Species Fungorum 2017), *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, ten species, type: *K. sorbina* (P. Karst.) P. Karst., asexual morph unknown, saprobes, Europe, USA, see Lumbsch and Huhndorf (2010; outline), Baral (2015; new combination), sequences are unavailable, holotype of type species unavailable.

Karsteniomyces D. Hawksw. 1980, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *K. peltigerae* (P. Karst.) D. Hawksw., asexual macroconidial morphs of *Scutula* Tul., lichenicolous, widespread, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of type species H-Karst 2041.

Karstenula Speg. 1879 (= *Staurosphaeria* Rabenh. 1858 *fide* Species Fungorum 2017), *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 16 species, type: *K. rhodostoma* (Alb. & Schwein.) Speg., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; accepted in *Didymosphaeriaceae*), Hyde et al. (2013; accepted in *Didymosphaeriaceae*), Ariyawansa et al. (2014e; taxonomy, accepted in *Didymosphaeriaceae*, phylogeny), Wijayawardene et al. (2014c; outline), Tanaka et al. (2015; DNA, phylogeny), holotype of the type species PH 01048835 (holotype of *Sphaeria rhodostoma*), cultures available for type species CBS 690.94, CBS 691.94.

Kashiwadia S.Y. Kondr., L. Lőkös & Hur 2014, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *K. orientalis* (Kashiw.) SY Kondr., L. Lőkös et J.-S. Hur, lichenized, eastern Asia, see Lücking et al. (2017a; classification), cultures and sequences are available.

Kastanostachys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *K. aterrima* (Fuckel) L. Lombard & Crous, asexual morph hyphomycetous, from forest soil, terrestrial, Czech Republic, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: PRM 934970, CBS 101310.

Kathistes Malloch & M. Blackw. 1990, *Kathistaceae*, *Ophiostomatales*, *Sordariomycetes*, type: *K. calyculata* Malloch & M. Blackw., three species, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences and cultures are available (unpublished), holotype of type species TRTC 51145.

Katumotoa Kaz. Tanaka & Y. Harada 2005, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *K. bambusicola* Kaz. Tanaka & Y. Harada, asexual morph unknown, saprobes, terrestrial, Japan, see Tanaka et al. (2009, 2015; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type species HHUF 28661, JCM 13131.

Kazachstania Zubkova 1971, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 35 species, type: *K. viticola* Zubkova, asexual reproduction is by multilateral budding, saprophytic, but a few species are opportunistic pathogens of mammals, in soil, maize silage, waste water, soft drinks, fermented foods, tree fluxes, faeces, infected mammals, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Keinstirschia J. Reid & C. Booth 1989, *Diaporthales incertae sedis*, *Sordariomycetes*, one species, type: *K. megalosperma* (Kirschst.) J. Reid & C. Booth, terrestrial, saprobes, Germany, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type species (see MBT#133497).

Keissleriella Höhn. 1919 (= *Chaetopyrena* Sacc. 1883; = *Chaetopyrenis* Clem. & Shear 1931; = *Coenosphaeria* Munk 1953; = *Zopfinula* Kirschst. 1939 *fide* Species Fungorum 2017), *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, c. 34, type: *K. aesculi* (Höhn.) Höhn., asexual morph dendrophoma-like, saprobes, terrestrial, worldwide, Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; accepted as a genus in *Lentitheciaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013; outline, accepted as a genus in *Lentitheciaceae*), Crous et al. (2014c; new species, The Netherlands), Ariyawansa et al. (2015a; new species), Liu et al. (2015a; new species, Italy), Singtripop et al. (2015; new species, phylogeny), Tanaka et al. (2015; new species, phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Keissleriomyces D. Hawksw. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *K. sansteadeans* (Keissl.) D. Hawksw., lichenicolous, Europe, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species W 1921/185.

Kellermania Ellis & Everh. 1885 (= *Planistromella* A.W. Ramaley 1993 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Planistromellaceae*, *Botryosphaeriales*, *Dothideomycetes*, c. 20 species, type: *K. yuccigena* Ellis & Everh., coelomycetous, sexual morph *Planistromella*, saprobes, terrestrial, worldwide, see Minnis et al. (2012; taxonomy, phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline, nomenclature), Hyde et al. (2013; taxonomy), Monkai et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), cultures and sequences are available.

Kendrickomyces B. Sutton, V.G. Rao & Mhaskar 1976, *Ascomycota* genera *incertae sedis*, two species, type: *K. indicus* B. Sutton, V.G. Rao & Mhaskar, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of the type species IMI 190465.

Kensinjia J. Reid & C. Booth 1989, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *K. umbrina* (Jenkins) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Kephartia R.C. Harris & Lendemer 2013, *Ascomycota* genera *incertae sedis*, two species, type: *K. crystalligera* R.C. Harris & Lendemer, asexual morph unknown, lichenized, terrestrial, USA, see Lendemer et al. (2013; taxonomy), sequences are unavailable, holotype of type: NY(26883).

Keratosphaera H.B.P. Upadhyay 1964, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *K. batistae* H.B.P. Upadhyay, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Farkas (2010; new species), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Kernia Nieuwl. 1916 (= *Magnusia* Sacc. 1878 *fide* Species Fungorum 2017), *Microascaceae*, *Microascales*, *Sordariomycetes*, five species, type: *K. nitida* (Sacc.) Nieuwl., asexual morph unknown, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype material of type: CBS H-13743.

Kerniomyces Toro 1939, *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *K. costi* Toro, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ketubakia Kamat, Varghese & V.G. Rao 1987, *Ascomycota* genera *incertae sedis*, one species, type: *K. indica* Kamat, Varghese & V.G. Rao, hyphomycetous, sexual morph unknown, saprobes, lignicolous, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Kiehlia Viégas 1944 (= *Lateropeltis* Shanor 1946 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *K. obscura* Viégas, asexual morph unknown, epiphytes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type species IACM.

Kiliophora Kuthub. & Nawawi 1993 (= *Danaëa* Caneva & Rambelli 1981 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *K. fusispora* Kuthub. & Nawawi, hyphomycetous, sexual morph unknown, saprobes, foliicolous, Ivory Coast, Malaysia and Vietnam, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hidayat et al. (2014; phylogeny, placed in *Amphisphaeriaceae*), Rajeshkumar et al. (2016; family

needs revision), cultures and sequences are available, holotype of type: IMI 355816.

Kimbropezia Korf & W.Y. Zhuang 1991, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *K. campestris* Korf & W.Y. Zhuang, saprobes, terrestrial, Canary Island, cultures and sequences are available, holotype of type: CUP-MM 2762.

Kionocephala P.M. Kirk 1986, *Ascomycota* genera *incertae sedis*, one species, type: *K. catenulata* (M.B. Ellis) P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, lignicolous, UK, Russia, Cuba, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Kionochaeta P.M. Kirk & B. Sutton 1986 (= *Phialicorona* Subram. 1993; = *Phialocorona* Subram. 1995 [1992–1993] *fide* Species Fungorum 2017), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, seven species, type: *K. ramifera* (Matsush.) P.M. Kirk & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type species, holotype of the type: IMI188783.

Kirschsteiniothelia D. Hawksw. 1985 (= *Dendryphiopsis* S. Hughes 1953 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Kirschsteiniotheliaceae*, *Kirschsteiniotheliales*, *Dothideomycetes*, 19 species, type: *K. aethiops* (Berk. & Curtis) D. Hawksw., asexual morph formerly known in *Dendryphiopsis*, on wood, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes* genera *incertae sedis*), Boonmee et al. (2012; phylogeny), Hyde et al. (2013; accepted as a genus in *Kirschsteiniotheliaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Rossman et al. (2015b; nomenclature), Jaklitsch et al. (2016a; classification), Su et al. (2016b; new species, phylogeny), cultures and sequences are available, Hernández-Restrepo et al. (2017; new species, phylogeny), holotype of type species K(M), genus remains polyphyletic.

Kirstenboschia Quaedvl., Verkley & Crous 2013, *Ascomycota* genera *incertae sedis*, one species, type: *K. diospyri* Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Quaedvlieg et al. (2013; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type: CBS H-21326, CBS 134911.

Kitesporella Jheng & K. L. Pang 2012, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *K. keelungensis* J.S. Jheng & K.L. Pang, asexual morph unknown, saprobes, marine, Taiwan, see Pang and Jheng (2012a; placement in *Halosphaeriaceae*), Maharachchikumbura et al. (2015b, 2016b; genus accepted), sequence are unavailable, holotype of type: BBH30190.

Klasterskya Petr. 1940, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, one species, type: *K. acuum* (Mouton) Petr., asexual morph hyalorhinocladiella-like, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Kleidiomyces Thaxt. 1908, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *K. furcillatus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic, terrestrial, America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kluyveromyces van der Walt 1956 (= *Dekkeromyces* Santa María & C. Sánchez-Pinto 1970; = *Dekkeromyces* Wick. & K.A. Burton 1956; = *Fabospora* Kudryavtsev 1960; = *Zygofabospora* Kudryavtsev 1960; = *Zygorenospora* Krassiln. 1954 *fide* Species Fungorum 2017), *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, eight species, type: *K. marxianus* (E.C. Hansen) van der Walt, asexual reproduction is by multilateral budding, saprophytic, sea water, *Drosophila* spp., mushrooms, tree fluxes, cacti, dairy products, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Kmetia Bres. & Sacc. 1902, *Ascomycota* genera *incertae sedis*, one species, type: *K. exigua* Bres. & Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kmetiopsis Bat. & Peres 1960, *Ascomycota* genera *incertae sedis*, one species, type: *K. hymenaeae* Bat. & Peres, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Knemiothyrium Bat. & J.L. Bezerra 1960, *Ascomycota* genera *incertae sedis*, one species, type: *K. weldenii* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, saprobes, terrestrial, Jamaica, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Knightiella Müll. Arg. 1886, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *K. splachnirruma* Müll. Arg., see Lücking et al. (2017b: classification), sequences are available.

Knoxdaviesia M.J. Wingf., P.S. van Wyk & Marasas 1988 (= *Gondwanamyces* G.J. Marais & M.J. Wingf. 1998 *fide* Réblová et al. 2016c), *Microascaceae*, *Microascales*, *Sordariomycetes*, two species, type: *K. proteae* M.J. Wingf., P.S. van Wyk & Marasas, hyphomycetous, sexual morph unknown, coprophilous, terrestrial, South Africa, see Lumbsch and Huhndorf (2010; outline), de Beer et al. (2013; new species), Kirk et al. (2013; genus accepted), Aylward et al. (2014, 2015; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are available, holotype of the type: PREM48928, cultures and sequences are available.

Knufia L.J. Hutchison & Unter. 1996, *Trichomeriaceae*, *Chaetothyriales*, *Eurotiomycetes*, 13 species, type: *K. cryptophialidica* L.J. Hutchinson & Unter., hyphomycetous, mostly terrestrial, associated with soil, bark, rock surfaces and human skin, America, Asia and Europe, see Li et al. (2008a; human infection, as "*Coniosporium*"), Tsuneda et al. (2011b; outline), Seifert et al. (2011; morphology), Untereiner et al. (2011; phylogeny, sexual morph), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2013b; new species), Réblová et al. (2013; phylogeny, new combination), holotype and ex-isotype strain of the type: TRTC 51492, DAOM 216555.

Kochiella Sakayaroj, K.L. Pang & E.B.G. Jones 2011, *Halosphaeriaceae*, *Microascales*, *Sordariomycete*s, one species, type: *K. crispa* (Kohlm.) Sakay., K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, Denmark, Hawaii, Japan, Liberia, Martinique, Taiwan, see Sakayaroj et al. (2011a; morphology, phylogeny), Jones et al. (2015; outline, phylogeny), cultures and sequences are available.

Kockiozyma Jindam., Yukphan, & Y. Yamada 2012, *Lipomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *K. suomiensis* (M.T. Sm., Van der Walt & Y. Yamada) Jindam., Yukphan & Y. Yamada, saprophytic, see Jindamorakot et al. (2012; taxonomy).

Kodamaea Y. Yamada, T. Suzuki, Matsuda & Mikata emend. Rosa, Lachance, Starmer, Barker, Bowles & Schlag-Edler 1999, ?*Metschnikowiaceae*, *Saccharomycetales*, *Saccharomycetes*, seven species, type: *K. ohmeri* (Etchells & T.A. Bell) Y. Yamada, Suzuki, M. Matsuda & Mikata, saprophytic, on flowers of morning glory, (*Hibiscus* spp.) and other plants including cacti, various beetles, on *Drosophila*, pickle brines, see Lumbsch and Huhndorf (2010; outline), Freitas et al. (2013; DNA), Kirk et al. (2013; genus accepted), sequences are available.

Kodonospora K. Ando 1993, *Ascomycota* genera *incertae sedis*, one species, type: *K. tetracolumnaris* K. Ando, hyphomycetous, sexual morph unknown, saprobes, on leaves, Japan, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), sequences are unavailable, holotype of type: TNS F-176499.

Koerberia A. Massal. 1854 (= *Tingiopsidium* Werner 1939 *fide* Species Fungorum 2017), *Koerberiaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *K. biformis* A. Massal., lichenized, Europe, Asia, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Placynthiaceae*), Kirk et al. (2013; genus accepted), Spribille and Muggia (2013, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species unavailable.

Koerberiella Stein 1879 (= *Lecanorella* Frey 1926; = *Perspicinora* Riedl 1990 *fide* Species Fungorum 2017), *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, two species, type: *K. wimmeriana* (Körb.) Stein, lichenized, Europe, North America, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Schmull et al. (2011; phylogeny), Lücking et al. (2016a; classification), cultures and sequences are available, holotype of type species unavailable.

Kohlmeyeriella E. B. G. Jones, R. G. Johnson & S. T. Moss 1983, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, two species, type: *K. tubulata* (Kohlm.) E.B.G. Jones, R.G. Johnson & S.T. Moss, asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; genus accepted), Jones et al. (2015; outline, phylogeny), cultures and sequences are available.

Kohlmeyeriopsis S. Klaubauf, M.H. Lebrun & P.W. Crous 2014, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *K. medullaris* (Kohlm., Volkm.-Kohlm. & O.E. Erikss.) Klaubauf, Lebrun & Crous, holomorph, asexual morph hyphomycetous, saprobes, marine, USA, see Abdel-Wahab et al. (2014; phylogeny), Klaubauf et al. (2014; phylogeny), Jones et al. (2015, outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; genus accepted), cultures and sequences are available, ex-type culture of type species unavailable, holotype of type species J.K. 5528 = 01315596-99 = 01315600-05, NYBG.

Kohninia Holst-Jensen, Vrålstad & T. Schumach. 2004, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *K. linnaeicola* Holst-Jensen, Vrålstad & T. Schumach., asexual morph unknown, saprobes, terrestrial,

Norway, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; phylogeny), cultures and sequences are available.

Kolletes Kohlm. & Volkm.-Kohlm. 2005, *Ascomycota* genera *incertae sedis*, one species, type: *K. undulatus* Kohlm. & Volkm.-Kohlm., hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; not accepted as valid genus), cultures and cultures and sequences are unavailable, holotype of the type: IMS, Kohlmeyer 5728.

Komagataella Y. Yamada, Matsuda, Maeda & Mikata 1995, ?*Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, six species, type: *K. pastoris* (Guilliermond) Y. Yamada, M. Matsuda, K. Maeda & Mikata, asexual reproduction is by multilateral budding, saprophytic, fluxes from various trees and from rotted wood, worldwide, see Kurtzman (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Kompsoscypha Pfister 1989, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *K. chudei* (Pat. ex Le Gal) Pfister, saprobes, on leaves, fruits and twigs, tropical and subtropical, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Konenia Hara 1913, *Sordariomycetes* genera *incertae sedis*, two species, type: *K. bambusae* Hara, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Konradia Racib. 1900 (= *Xylariopsis* F.L. Tai 1934 *fide* Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *K. bambusina* Racib., asexual morph unknown, saprobe, terrestrial, Java, Indonesia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Kontospora A. Roldán, Honrubia & Marvanová 1990, *Ascomycota* genera *incertae sedis*, one species, type: *K. halophila* A. Roldán, Honrubia & Marvanová, hyphomycetous, sexual morph unknown, saprobes, aquatic, Spain, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Koorchaloma Subram. 1953, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, nine species, type: *K. madreeya* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread (pantropical), see Allegrucci et al. (2011; key to species), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable for type species.

Koorchalomella Chona, Munjal & J.N. Kapoor 1958, *Ascomycota* genera *incertae sedis*, one species, type: *K. oryzae* Chona, Munjal & J.N. Kapoor, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Koordersiella Höhn. 1909 (= *Hansfordiellopsis* Deighton 1960; *Ascohansfordiellopsis* D. Hawksw. 1979; = *Phanerococcus* Theiss. & P. Syd. 1918 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, three species, type: *K. javanica* Höhn., asexual morph unknown, lichenicolous, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Koralionastes Kohlm. & Volkm.-Kohlm. 1987, *Koralionastetaceae*, *Koralionastetales*, *Sordariomycetes*, five species, type: *K. ovalis* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Campbell et al. (2009a; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; genus accepted), holotype: J.K. 4965a, cultures and sequences are available.

Korfia J. Reid & Cain 1963, *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *K. tsugae* (E.K. Cash & R.W. Davidson) J. Reid & Cain, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, holotype of type species unavailable.

Korfiella D.C. Pant & V. P. Tewari 1970, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *K. karnika* D.C. Pant & V.P. Tewari, saprobes, on conifer needles, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Korfiomyces Iturr. & D. Hawksw. 2004, *Lecanoromycetes* genera *incertae sedis*, one species, type: *K. gelatinosus* Iturr. & D. Hawksw. (as "gelatinosum"), asexual morph unknown, on resin and wood, Venezuela, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, holotype of type: VEN Iturriaga 615.

Korunomyces Hodges & F.A. Ferreira 1981, *Ascomycota* genera *incertae sedis*, three species, type: *K. terminaliae* Hodges & F.A. Ferreira, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, ex-type of type: CBS 224.80.

Kostermansinda Rifai 1968, *Ascomycota* genera *incertae sedis*, three species, type: *K. magna* (Boedijn) Rifai, hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kostermansindiopsis R.F. Castañeda 1986, *Ascomycota* genera *incertae sedis*, one species, type: *K. theobromae* R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kotlabaea Svrcek 1969, *Pyronemataceae*, *Pezizales, Pezizomycetes*, twelve species, type: *K. deformis* (P. Karst.) Svrcek, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lindemann et al. (2015; phylogeny), cultures and sequences are available.

Kramabeeja G.V. Rao & K.A. Reddy 1981, *Ascomycota* genera *incertae sedis*, one species, type: *K. shrungashakha* G.V. Rao & K.A. Reddy, hyphomycetous, sexual morph unknown, saprobes, on dead rachis of *Areca*, India, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kramasamuha Subram. & Vittal 1973, *Ascomycota* genera *incertae sedis*, one species, type: *K. sibika* Subram. & Vittal, hyphomycetous, sexual morph unknown, saprobes, on leaves, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kraurogymnocarpa Udagawa & Uchiy. 1999, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *K. lenticulispora* Udagawa & Uchiy., asexual morphs unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Sigler et al. (2013; DNA), cultures and sequences are available.

Kravtzevia Schwarzman 1961, *Sordariomycetes* genera *incertae sedis*, three species, type: *K. halimodendri* Schwarzman, asexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Kregervanrija Kurtzman 2006, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, three species, type: *K. fluxuum* (Phaff & E.P. Knapp) Kurtzman, asexual reproduction multilateral budding, saprophytic, on tree fluxes, apples, apple juice, wine and other fermented beverages, pickle brines, Europe and North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Kreiseliella U. Braun 1991, *Ascomycota* genera *incertae sedis*, one species, type: *K. typhae* (Vasyag.) U. Braun, coelomycetous, terrestrial, foliicolous, leaf-spotting, Asia (Kazakhstan), see Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kretzschmaria Fr. 1849 (= *Ustulina* Tul. & C. Tul. 1863; = *Ascostroma* Bonord. 1851; = *Rhopalopsis* Cooke 1883 *fide* Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, more than 50 species, type: *K. clavus* (Fr.) Sacc., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Daranagama et al. (2017 morphology, taxonomy, key), sequences are available but lacking for the type species.

Kretzschmariella Viégas 1944, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *K. culmorum* (Cooke) Y.-M. Ju & J. D. Rogers, asexual morph present, saprobes, Thaiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Daranagama et al. (2017 morphology, taxonomy, key), sequences are unavailable.

Kriegeriella Höhn. 1918, *Dothideomycetes* genera *incertae sedis*, four species, type: *K. mirabilis* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline, placed in *Pleosporaceae*), Wu et al. (2011; classification), Zhang et al. (2012e; placed in *Microthyriaceae*), Hyde et al. (2013; classification), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015c; did not accept as in *Pleosporaceae*), cultures and sequences are unavailable, generic revision is essential

Krishnamyces Hosag. 2003, *Ascomycota* genera *incertae sedis*, one species, type: *K. indica* Hosag., ?hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Krogia Timdal 2002, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *K. coralloides*

Timdal, lichenized, Asia, Africa, see Timdal (2009; new species), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type species O L21909.

Kruphaiomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *K. trochoidei* Thaxt., asexual morph unknown, biotrophic, terrestrial, Fiji, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kuehniella G.F. Orr 1976, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *K. racovitzae* (Lagarde) G.F. Orr, asexual morph unknown, saprobes, terrestrial, Northern America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Kullhemia P. Karst. 1878, *Dothideomycetes* genera *incertae sedis*, three species, type: *K. moriformis* (Ach.) P. Karst., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Kumanasamuha P. Rag. Rao & D. Rao 1964, *Ascomycota* genera *incertae sedis*, four species, type: *K. sundara* P. Rag. Rao & D. Rao, hyphomycetous, sexual morph unknown, saprobes, lignicolous, widespread, see Nagao et al. (2009; new species), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kundalinella Hande & Subhedar 2001, *Ascomycota* genera *incertae sedis*, one species, type: *K. raoella* Hande & Subhedar, asexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Kuraishia Y. Yamada, Maeda & Mikata 1994, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, seven species, type: *K. capsulata* (Wickerham) Y. Yamada, K. Maeda & Mikata, asexual reproduction is by multilateral budding, saprophytic, on insect frass, rotted wood, soil, mushroom, worldwide, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Kurssanovia Kravtzev 1955, *Sordariomycetes* genera *incertae sedis*, three species, type: *K. vassiljevskii* Kravtzev, asexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not accept), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Kurtzmaniella Lachance & Starmer 2008, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, twelve species, type: *K. cleridarum* Lachance & Starmer, in asexual reproduction cells produced by asexual reproduction are ovoid to ellipsoid and form by multilateral budding, saprophytic, one species is an opportunistic human pathogen, cactus flowers, mushrooms, tree fluxes, beetles, rotted wood, insect frass, apple cider, rotted fruit, olives, soil, seawater, human faeces, sputum, worldwide, see Lumbsch and Huhndorf (2010; outline), Lachance et al. (2013b; DNA), sequences are available.

Kusanobotrys Henn. 1904 (= *Chaetobotrys* Clem. 1931 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, three species, type: *K. bambusae* Henn., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Kylindria DiCosmo, S.M. Berch & W.B. Kendr. 1983, *Reticulascaceae*, *Glomerellales*, *Sordariomycetes*, nine species, type: *K. triseptata* (Matsush.) DiCosmo, S.M. Berch & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Zhang et al. (2010e; new species, China), Réblová et al. (2011; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available but lacking for type species.

Kyphomyces I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 14 species, type: *K. ansatus* (Thaxt.) I.I. Tav., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Kyphophora B. Sutton 1991, *Ascomycota* genera *incertae sedis*, one species, type: *K. avicenniae* B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Laboulbenia Mont. & C.P. Robin 1853 (= *Ceraiomyces* Thaxt. 1901; = *Eumisgomyces* Speg. 1912; = *Laboulbeniella* Speg. 1912; = *Schizolaboulbenia* Middelh. 1957; = *Thaxteria* Giard 1892 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, c. 625 species, type: *L. rougetii* Mont. & C.P. Robin, asexual morph unknown, biotrophic, hosts are diverse, including *Acari*, *Blattodea*, *Coleoptera* (*Carabidae*, *Chrysomelidae*, *Curculionidae*, *Erotylidae*, *Gyrinidae*, *Staphylinidae*, and others), *Diptera*, *Hemiptera*, *Hymenoptera* (*Formicidae*), and *Orthoptera* (*Gryllotalpidae*), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015b; DNA), Rossi et al. (2016a; morphology), Wang et al. (2016b; morphology), sequences are available but lacking for the type species.

Laboulbeniopsis Thaxt. 1920, *Laboulbeniomycetes* genera *incertae sedis*, one species, type: *L. termitarius* Thaxt., asexual morph unknown, parasitic on termites, terrestrial, North America, Caribbean, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Labrocarpon Pérez-Ortega & Etayo 2010, *Asterinales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *L. canariense* (D. Hawksw.) Etayo & Pérez-Ortega, asexual morph unknown, lichenicolous on *Pertusaria* species, parasymbiont, Canary Islands, Madeira, mainland Spain and Portugal, Italy and Greece, see Pérez-Ortega and Etayo (2010; genus proposed), Ertz and Diederich (2015, phylogeny), cultures and sequences are available, holotype of type: IMI 259313.

Laburnicola Wanas., Camporesi, E.B.G. Jones & K.D. Hyde 2016, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *L. muriformis* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, Russia, see Wanasinghe et al. (2016a; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of type: MFLU 16-0230, MFLUCC 16-0290.

Labyrintha Malcolm, Elix & Owe-Larsson 1995, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *L. implexa* Malcolm, Elix & Owe-Larss., lichenized, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type species CHR 470232.

Labyrinthomyces Boedijn 1939, *Tuberaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *L. steenisii* Boedijn, truffles, ectomycorrhizal, terrestrial, Australia, see Trappe et al. (2008; desert truffles), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lacazia Taborda, V.A. Taborda & McGinnis 1999, *Onygenales*, genera *incertae sedis*, *Eurotiomycetes*, two species, type: *L. loboi* Taborda, V.A. Taborda & McGinnis, asexual morph unknown, on humans and animals, terrestrial, neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lacellina Sacc. 1913, *Ascomycota* genera *incertae sedis*, three species, type: *L. libyca* Sacc. & Trotter, hyphomycetous, sexual morph unknown, on plants, widespread (pantropical), see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lacellinopsis Subram. 1953, *Ascomycota* genera *incertae sedis*, three species, type: *L. sacchari* Subram., hyphomycetous, sexual morph unknown, saprobes, on leaves (grasses) and litter, widespread (pantropical), see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lachancea Kurtzman 2003, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *L. thermotolerans* (Filippov) Kurtzman, asexual reproduction is by multilateral budding, saprophytic, tree fluxes, rotted wood, alpechin, fruit, fruit flies, spoiled beverages, soil, seawater near mangroves, worldwide, see Lumbsch and Huhndorf (2010; outline), sequences are available.

Lachnellula P. Karst. 1884, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, c. 40 species, type: *L. chrysophthalma* (Pers.) P. Karst., asexual morph unknown, saprobes, pathogen, terrestrial, widespread (temperate), Lumbsch and Huhndorf (2010; outline), Whitton et al. (2012b; morphology), Kirk et al. (2013; genus accepted), Schumacher et al. (2015; pathogens), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacks for type species, needs generic revision.

Lachnodochium Marchal 1895, *Ascomycota* genera *incertae sedis*, one species, type: *L. candidum* Marchal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lachnum Retz. 1769 (see Species Fungorum 2017 for synonyms), *Lachnaceae*, *Helotiales*, *Leotiomycetes*, c. 50 species, type: *L. agaricinum* Retz., asexual morph unknown, saprobes on ferns, bamboo culms, herbs, herbaceous stems, cones, cupules, wood or leaves of palms, coniferous or broadleaved trees, cosmopolitan, see Nagao (2008; Japan), Hosoya et al. (2010; phylogeny, cultures), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Laciniocladium Petri 1917, *Ascomycota* genera *incertae sedis*, one species, type: *L. castaneae* Petri, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lacrymospora Aptroot 1991, *Requienellaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *L. parasitica* Aptroot, asexual morph unknown, lichenicolous, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable,

holotype of the type: herb. Aptroot, Aptroot and Hensen 12613.

Lacunospora Cailleux 1969, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *L. stercoraria* Cailleux, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Laetinaevia Nannf. 1932 (= *Myridium* Clem. 1909 *fide* Species Fungorum 2017), *Calloriaceae*, *Helotiales*, *Leotiomycetes*, c. 15 species, type: *L. lapponica* (Nannf.) Nannf., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Baral and Rama (2015; DNA), cultures and sequences are available but lacking for type species.

Laeviomyces D. Hawksw. 1981 (= *Spilomium* Nyl. 1858 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, four species, type: *L. pertusariicola* (Nyl.) D. Hawksw., sexual morphs unknown, lichenicolous, terricolous, widespread, see Kirk et al. (2013; genus accepted), Zhurbenko and Otte (2012; genus accepted, illustrations), cultures and sequences are unavailable, holotype of type species H-Nyl 23576.

Lagenulopsis Fitzp. 1942, *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, one species, type: *L. bispora* Fitzp., asexual morph unknown, saprobes, terrestrial, Northern America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wood et al. (2016; phylogeny, taxonomy), cultures and sequences are available.

Lahmia Körb. 1861 (= *Parkerella* A. Funk 1976 *fide* Species Fungorum 2017), *Lahmiaceae*, *Lahmiales*, *Leotiomycetes*, one species, type: *L. kunzei* Körb., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, holotype of type species unavailable.

Lahmiomyces Cif. & Tomas. 1953, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *L. piceae* Cif. & Tomas., asexual morph unknown, saprobes, terrestrial, Italy, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification, treated as a genus in *Patellariaceae*), cultures and sequence are unavailable.

Lambdasporium Matsush. 1971, *Ascomycota* genera *incertae sedis*, three species, type: *L. wauense* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lambertella Höhn. 1918 (= *Coprotinia* Whetzel 1944; = *Phaeociboria* Höhn. 1918; = *Phaeodiscus* L.R. Batra 1968 *fide* Species Fungorum 2017), *Rutstroemiaceae*, *Helotiales*, *Leotiomycetes*, c. six species, type: *L. corni-maris* Höhn., asexual morph helicodendron-like, terrestrial, aquatic, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline), Zhao et al. (2013b; Japan), Kirk et al. (2013; genus accepted), Galán et al. (2015; phylogeny), sequence data available for ten species, holotype and extype of type species unavailable.

Lambiella Hertel 1984 (= *Mosigia* Fr. 1845 *fide* Species Fungorum 2017), *Xylographaceae*, *Trapeliales*, *Lecanoromycetes*, twelve species, type: *L. psephota* (Tuck.) Hertel, lichenized, see Spribille et al. (2014a; phylogeny), Resl et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Lambinonia Sérus. & Diederich 2005, *Ascomycota* genera *incertae sedis*, one species, type: *L. strigulae* (Elenkin & Woron.) Sérus. & Diederich, hyphomycetous, sexual morph unknown, lichenicolous, non-lichenized, on foliicolous lichens, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Lambro Racib. 1900 (= *Stegophora* Syd. & P. Syd. 1916 *fide* Senanayake et al. 2017), *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *L. insignis* Racib., asexual morphs unknown, saprobes, terrestrial, Indonesia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2017, placement), cultures and sequence are unavailable.

Lamproconium (Grove) Grove 1937 (= *Melanconium* sect. *Lamproconium* Grove 1918 *fide* Species Fungorum 2017), *Lamproconiaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *L. desmazieri* (Berk. & Broome) Grove, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), Norphanphoun et al. (2016; taxonomy, phylogeny), cultures and sequences are available, holotype of type: CBS H-13785.

Lamprospora De Not. 1864 (= *Moravecia* Benkert, Caillet & Moyne 1987; = *Barlaea* Sacc. 1889; = *Barlaeina* Sacc. & P. Syd. 1899; = *Crouania* Fuckel 1870 [1869–70] *fide* Jaklitsch et al. 2016a; Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, c. 60 species, type: *L. miniata* (P. Crouan & H. Crouan) De Not., parasitic on mosses, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus

accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available, holotype of the type: CBS H-14139.

Lanatosphaera Matzer 1996, *Dothideomycetes* genera *incertae sedis*, two species, type: *L. porinicola* Matzer, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of the type species GZU, Matzer 1422 & Pelzmann.

Lanceispora Nakagiri, Okane, Tad. Ito & Katum. 1997, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *L. amphibia* Nakagiri, Okane, Tad. Ito & Katum., asexual morph unknown, endophytic, saprophytic, subtropics, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Amphisphaeriaceae*), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available, holotype and ex-type of the type: IFO H-12218, NBRC 32918.

Lanspora K.D. Hyde & E.B.G. Jones 1986, *Phomatosporaceae*, *Phomatosporales*, *Sordariomycetes*, one species, type: *L. coronata* K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, marine, Seychelles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2016; taxonomy, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Lanzia Sacc. 1884, *Rutstroemiaceae*, *Helotiales*, *Leotiomycetes*, 55 species, type: *L. flavorufa* (Sacc.) Sacc., asexual morph unknown, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Johnston and Park (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), cultures and sequences are available but lacking for the type species.

Laocoön J.C. David 1997, *Ascomycota* genera *incertae sedis*, one species, type: *L. paradoxus* (Syd. & P. Syd.) J.C. David, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c; outline, accepted as a genus in *Mycosphaerellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline, transferred to *Ascomycota* genera *incertae sedis*), cultures and sequences are unavailable.

Lapidomyces de Hoog & Stielow 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *L. hispanicus* de Hoog & Stielow, hyphomycetous, sexual morph unknown, rock-inhabiting fungus, Spain, see Egidi et al. (2014; taxonomy, phylogeny), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2017; outline), type: CBS 118355 = TRN500, cultures and sequences available.

Lappodochium Matsush. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *L. langeniforme* Matsush., hyphomycetous, sexual morph unknown, on soil, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Laquearia Fr. 1849, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *L. sphaeralis* (Fr.) Fr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lareunionomyces Crous & M.J. Wingf. 2016, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *L. syzygii* Crous & M.J. Wingf., hyphomycetous, saprobes, terrestrial, France, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type species CBS H-22623, CPC 26531.

Larissia Raitv. 2008, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *L. pyrolae* Raitv., asexual morph unknown, saprobes, terrestrial, Russia, see Raitviir (2008; taxonomy), the genus was not listed in any recent outlines or checklists, cultures and sequences are unavailable, holotype of type species TAA-182408.

Lasallia Mérat 1821 (= *Macrodictya* A. Massal. 1852; = *Umbilicariomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Umbilicariaceae*, *Umbilicariales*, *Lecanoromycetes*, 17 species, type: *L. pustulata* (L.) Mérat, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lasiobelonium Ellis & Everh. 1897 (= *Lasiobelonis* Clem. & Shear 1931; = *Sponheimeria* Kirschst. 1941 *fide* Species Fungorum 2017), *Lachnaceae*, *Helotiales*, Leotiomycetes, c. 20 species, type: *L. subflavidum* Ellis & Everh., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for type species.

Lasiobertia Sivan. 1978, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *L. africana* Sivan., asexual morph unknown, saprobes, terrestrial, Ghana, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Daranagama et al. (2016d; accepted in *Xylariales*), cultures and sequences are available but lack for the type species, holotype of the type: IMI 38816.

Lasiobolidium Malloch & Cain 1971, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, seven species, type: *L. spirale* Malloch & Cain, asexual morph unknown, saprobes, on dung, North America, see Doveri et al. (2013; key, Italy), Hansen et al. (2013; polyphyletic genus), cultures and sequences are available.

Lasiobolus Sacc. 1884 (= *Peziza* subgen. *Pyronemella* Vido 1879; = *Pyronemella* (Vido) Sacc. 1889 *fide* Species Fungorum 2017), *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, eleven species, type: *L. pilosus* (Fr.) Sacc., coprophilous, sexual morph unknown, saprobes, on herbivore dung, worldwide, see Güngör et al. (2008; proposed family), Chang and Wang (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, holotype of type: CBS H-13792.

Lasiobotrys Kunze 1823, *Venturiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *L. lonicerae* (Fr.) Kunze, asexual morph unknown, saprobes, terrestrial, ulocladium-like, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Hyde et al. (2013) did not accept as a genus in *Venturiaceae*, Zhang et al. (2011d; accepted as a genus in *Venturiales* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lasiodiplodia Ellis & Everh. 1896 (= *Combodia* Fr. 1849; = *Macrophomella* Died. 1916; = *Macrophomopsis* N.E. Stevens & Baechler 1926; = *Nemadiplodia* Zambett. 1955 [1954]; = *Striodiplodia* Zambett. 1955 [1954]; = *Traversoa* Sacc., Syd. & P. Syd. 1913 *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, at least 31 species, type: *L. theobromae* (Pat.) Griffon & Maubl., asexual morph coelomycetous, saprobes, pathogens, terrestrial, worldwide, see Pavlic et al. (2008; new species), Phillips et al. (2008, 2013; taxonomy, phylogeny), Abdollahzadeh et al. (2010; new species), Liu et al. (2012a, b, taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Yan et al. (2013; species associated with grpe wine), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, taxonomy, phylogeny), Linaldeddu et al. (2015; new species), Dissanayake et al. (2016b; taxonomy), Tennakoon et al. (2016c; sexual morph of *L. pseudotheobromae*, phylogeny), Doilom et al. (2017; species in *Tectona*), neotype and ex-neotype of the type: CBS H-21411, CBS 164.96 (fide Phillips et al. 2013).

Lasiodiplodiella Zambett 1955, *Ascomycota* genera *incertae sedis*, three species, type: *L. triflorae* (B.B. Higgins) Zambett., coelomycetes, sexual morph unknown, widespread, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species unavailable.

Lasioloma R. Sant. 1952, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, nine species, type: *L. arachnoideum* (Kremp.) R. Sant., lichenized, Asia, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lasiomollisia Raitv. & Vesterh. 2006, *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *L. phalaridis* Raitv. & Vesterh., asexual morph unknown, saprobes, terrestrial, Sweden, cultures and sequences are unavailable, holotype of the type: TAA (M), Hanson 2003-147.

Lasionectria (Sacc.) Cooke 1884 (= *Nectria* subgen. *Lasionectria* Sacc. 1883 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, twelve species, type: *L. mantuana* (Sacc.) Cooke, asexual morph acremonium-like, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lechat and Fournier (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Lasiosphaeria Ces. & De Not. 1863 (= *Hormosperma* Penz. & Sacc. 1897; = *Lasiella* Quél. 1875; = *Lasiosordariella* Chenant. 1919 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, 72 species, type: *L. ovina* (Pers.) Ces. & De Not., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Raja et al. (2011a; DNA), Kirk et al. (2013; genus accepted), Miller et al. (2014; phylogeny), Kruys et al. (2015; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Bell and Mahoney (2016; new species, phylogeny), cultures available for the type species ANM 1295 (Raja et al. 2011a, b), holotype of type: CBS H-13806.

Lasiosphaeriella Sivan. 1975, *Chaetosphaeriales* genera *incertae sedis*, *Sordariomycetes*, twelve species, type: *L. dennisii* Sivan., asexual morph acremonium-like, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline, accepted as *Sordariomycetidae*, genera *incertae sedis*), Huhndorf and Miller (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Lasiosphaeriopsis D. Hawksw. & Sivan. 1980, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, seven species, type: *L. salisburyi* D. Hawksw. & Sivan, asexual morph unknown, lichenicolous, widespread, terrestrial, see Lumbsch & Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: K(M)-IMI 80468.

Lasiosphaeris Clem. 1909 (= *Lasiadelphia* Réblová & W. Gams 2011 *fide* Maharachchikumbura et al. 2015b, 2016b; Réblová et al. 2016c), *Sordariales* genera *incertae sedis*, *Sordariomycetes*, three species, type: *L. hispida* (Tode) Clem., asexual morph formerly known in *Lasiadelphia*, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miller et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures available for the type: TL6019, SMH 3336 (Miller and Huhndorf 2004).

Lasiostemma Theiss., Syd. & P. Syd. 1917 (= *Chaetyllis* Clem. 1931; = *Epiploca* Kleb. 1918; = *Lasiostemmella* Petr. 1950; = *Neodimerium* Petr. 1950; = *Pseudoperis* Clem. & Shear 1931; = *Pseudoperisporium* Toro 1926 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes*, families *incertae sedis*, five species, type: *L. melioloides* (Berk. & Ravenel) Theiss., Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Mapook et al. (2016b; transferred to *Pseudoperisporiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lasiostictella Sherwood 1986, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *L. bambusae* Sherwood, asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lasiothyrium Syd. & P. Syd. 1913, *Ascomycota* genera *incertae sedis*, one species, type: *L. cycloschizon* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lasmenia Speg. 1886, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, five species, type: *L. balansae* Speg., coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, South America, Australia, Hong Kong, Philippines, see Serrato-Diaz et al. (2011; DNA), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Lasmeniella Petr. & Syd. 1927, *Ascomycota* genera *incertae sedis*, 13 species, type: *L. guaranitica* (Speg.) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lasseria Dennis 1960, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *L. chrysophthalma* Dennis, asexual morph unknown, saprobes, terrestrial, Argentina, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), living cultures and sequences are unavailable.

Latericonis G.V. Rao, K.A. Reddy & de Hoog 1984, *Ascomycota* genera *incertae sedis*, one species, type: *L. obscura* V. Rao, K.A. Reddy & de Hoog, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lateriramulosa Matsush. 1971, *Ascomycota* genera *incertae sedis*, five species, type: *L. uni-inflata* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Laterispora Uecker, W.A. Ayers & P.B. Adams 1982, *Ascomycota* genera *incertae sedis*, one species, type: *L. brevirama* Uecker, W.A. Ayers & P.B. Adams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lathagrium (Ach.) Gray 1821 (see Species Fungorum 2017 for synonyms), *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, ten species, type: ?*L. nigrescens* (Huds.) Gray, lichenized, North America, Europe, Russia, see Otálora et al. (2013, 2014; phylogeny, review), Lücking et al. (2017a; classification), cultures and sequences are available.

Lathraeodiscus Dissing & Sivertsen 1989, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *L. arcticus* Dissing & Sivertsen, on soil with mosses with *Octospora*, *Lamprospora*, *Geopora*, high arctic, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species C, isotype TRH.

Latorua Crous 2015, *Latoruaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. caligans* (Bat. & H.P. Upadhyay) Crous, hyphomycetous, saprobes, Brazil, see Crous et al. (2015a; taxonomy, phylogeny), Wijayawardene et al. (2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22267, CBS 576.65.

Lauderlindsaya J.C. David & D. Hawksw. 1989 (= *Lenormandia* Delise 1841; = *Normandinomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017),

Verrucariaceae, *Verrucariales*, *Eurotiomycetes*, three species, type: *L. borrerei* (Tul.) J.C. David & D. Hawksw., some species lichenicolous, some species lichenized, Europe, Japan, Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Muggia et al. (2010a; phylogeny), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, lectotype of type species K-Borrer.

Lauriomyces R.F. Castañeda 1990, *Lauriomycetaceae*, *Lauriomycetales*, *Leotiomycetes*, five species, type: *L. pulcher* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Crous et al. (2009a; DNA, phylogeny), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species, Thailand, accepted as *Ascomycota incertae sedis*), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Lautitia S. Schatz 1984, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. danica* (Berl.) S. Schatz, asexual morph unknown, parasites, marine, Denmark, France, UK, USA, see Jones et al. (2009b; review), cultures and sequences are unavailable, holotype and ex-type unavailable.

Lautospora K.D. Hyde & E.B.G. Jones 1989, *Lautosporaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *L. gigantea* K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, marine, Australia, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jones et al. (2015; outline, phylogeny), sequences are available, holotype of the type species IMI 327273.

Lawalreea Diederich 1990, *Ascomycota* genera *incertae sedis*, one species, type: *L. lecanorae* Diederich, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: LG (66/14656).

Lazarenkoa Zerova 1938, *Dothideomycetes* genera *incertae sedis*, three species, type: *L. selaginellae* Zerova, asexual morph unknown, saprobes, terrestrial, Siberia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lazarenkoella S.Y. Kondr., Kärnefelt, A. Thell, Elix & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *L. zoroasteriorum* S.Y. Kondr. & M. Haji Moniri ex S.Y. Kondr., Kärnefelt, A. Thell, Elix, J. Kim, A.S. Kondr. & Hur, lichenized, Iran, Uzbekistan, see Kondratyuk et al. (2015c; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species KW-L.

Lazuardia Rifai 1988, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *L. lobata* (Berk. & M.A. Curtis) Rifai, asexual morph unknown, hypogeous, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for type: AAU 43756.

Lecanactis Körb. [nom. cons.] 1855 (= *Arthoniactis* (Vain.) Clem. 1909; = *Bacidiactis* M. Choisy 1931; = *Lecanactiomyces* Cif. & Tomas. 1953; = *Lecanactis* subgen. Arthoniactis Vain. 1901; = *Pyrenotea* Fr. 1821 *fide* Species Fungorum 2017), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 25 species, type: *L. abietina* (Ehrh. ex Ach.) Körb., lichenized, worldwide, see Ertz et al. (2015b, c; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Lecania A. Massal. 1853 (= *Adermatis* Clem. 1909; = *Aipospila* Trevis. 1857; = *Bayrhofferia* Trevis. 1857; = *Dimerospora* Th. Fr. 1860; = *Dyslecanis* Clem. 1909; = *Lecaniella* Jatta 1889; = *Lecaniomyces* E.A. Thomas 1939; = *Polyozosia* A. Massal. 1855 *fide* Species Fungorum 2017), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 50 species, type: *L. fuscella* (Schaer.) A. Massal., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), van den Boom (2016; new species), cultures and sequences are available.

Lecanicillium W. Gams & Zare 2001, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, 26 species, type: *L. lecanii* (Zimm.) Zare & W. Gams, hyphomycetous, entomogenous, fungicolous and in soil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, neotype and ex-neotype of type: IMI 331550, CBS 102067.

Lecanidiella Sherwood 1986, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *L. contortae* Sherwood, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), holotype of the type: CBS, Aptroot 38022, cultures and sequences are unavailable.

Lecaniocola Brain 1923, *Ascomycota* genera *incertae sedis*, one species, type: *L. parasitica* (Linder) Brain, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and

sequences are unavailable, holotype of type species unavailable.

Lecanographa Egea & Torrente 1994, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, 37 species, type: *L. lyncea* (Sm.) Egea & Torrente, sexual morph with rounded to lirelliform ascomata, lichenized, rarely lichenicolous, terrestrial, rather world-wide with a preference for coastal habitats with a Mediterranean or Desert type climate, see Ertz and Tehler (2011; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Lecanora Ach. 1809 (see Species Fungorum 2017 for synonyms), *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, 550 species, type: *L. allophana* Nyl., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Pérez-Ortega et al. (2010; phylogeny), Ranković et al. (2011; Antioxidant, antimicrobial and anticancer activity), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lecanosticta Syd. 1922 (= *Eruptio* M.E. Barr 1996 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, seven species, type: *L. pini* Syd., coelomycetous, sexual morph formerly named in *Eruptio*, pathogens, see Quaedvlieg et al. (2012; morphology, phylogeny), Wijayawardene et al. (2014c, 2016b; taxonomy, phylogeny), cultures and sequences are available, epitype and ex-epitype of type: CBS H-21113, CBS 133791.

Lecanostictopsis B. Sutton & Crous 1997, *Ascomycota* genera *incertae sedis*, four species, type: *L. kamatii* (Ullasa) B. Sutton & Crous, coelomycetous, sexual morph unknown, saprobes, terrestrial, France, India, South Africa, see Wijayawardene et al. (2012, 2017; outline, morphology), cultures and sequences are unavailable, holotype of the type: IMI 147817.

Lecidea Ach. 1803 (= *Cladopycnidium* H. Magn. 1940; = *Diplotheca* (Zahlbr.) Räsänen 1943; = *Lecidea* sect. Diplotheca Zahlbr. 1907; = *Nothoporpidia* Hertel 1984; = *Sporoacania* A. Massal. 1855; = *Stenhammara* A. Massal. ex Zahlbr. 1924; = *Stereonema* Kütz. 1836; = *Zosterodiscus* Hertel 1984 *fide* Species Fungorum 2017), *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, 100 species, type: *L. fuscoatra* (L.) Ach., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lecidella Körb. 1855 (= *Diplophragmia* Vain. 1934; = *Lecidellomyces* E.A. Thomas 1939; = *Lecideola* A. Massal. 1861 *fide* Species Fungorum 2017), *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, 80 species, type: *L. viridans* (Flot.) Körb., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kantvilas and Elix (2013; review), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species unavailable.

Lecideopsella Höhn. 1909 (= *Gymnopeltis* F. Stevens 1924; = *Plectomyriangium* C. Moreau & M. Moreau 1959 *fide* Species Fungorum 2017), *Schizothyriaceae*, *Dothideomycetes*, families *incertae sedis*, c. eleven species, type: *L. gelatinosa* Höhn., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Phookamsak et al. (2016; new species, taxonomy), cultures and sequences are unavailable.

Lecidoma Gotth. Schneid. & Hertel 1981 (= *Lecidea* subdiv. Lepidoma Ach. 1803; = *Lepidoma* (Ach.) Gray 1821 *fide* Species Fungorum 2017), *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *L. demissum* (Rutstr.) Gotth. Schneid. & Hertel, lichenized, clearings of alpine grasslands and in places with prolonged snow cover, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lecidopyrenopsis Vain. 1907, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *L. corticola* Vain., lichenized, Thailand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Leciophysma Th. Fr. 1865, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, three species, type: *L. finmarkicum* Th. Fr., asexual morph unknown, lichenized, terrestrial, Siberia, see Wedin et al. (2009b; DNA), Lumbsch and Huhndorf (2010; outline), Øvstedal and Lewis Smith (2011; new species, Antarctica), Kirk et al. (2013; genus accepted), Ekman et al. (2014; new species), cultures and sequences are available.

Lecophagus M.W. Dick 1999, *Ascomycota* genera *incertae sedis*, two species, type: *L. fasciculatus* M.W. Dick, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lectera P.F. Cannon 2012, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, two species, type: *L. colletotrichoides* (J.E. Chilton) P.F. Cannon, coelomycetous, sexual morph unknown, pathogens,

terrestrial, worldwide, see Cannon et al. (2012; taxonomy, phylogeny), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available, lectotype and cultures of the type species ISC 217496, CBS 109728.

Lecythiomyces Doweld 2013 (= *Lecythium* Zukal 1893 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, three species, type: *L. aeruginea* (Zukal) Doweld, asexual morph unknown, saprobes, terrestrial, Austria, see Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Lecythothecium Réblová & Winka 2001, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, four species, type: *L. duriligni* Réblová & Winka, asexual morph hyphomycetous (sporidesmium-like), terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type of the type: PRM 842977, CBS 101317.

Leeina Petr. 1923, *Ascomycota* genera *incertae sedis*, one species, type: *L. philippinensis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leifidium Wedin 1993, *Sphaerophoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *L. tenerum* (Laurer) Wedin, asexual morph unknown, lichenized, terrestrial, Australia, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Leightoniella Henssen 1965, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *L. zeylanensis* (Leight.) Henssen, lichenized, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Weerakoon et al. (2016, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Leightoniomyces D. Hawksw. & B. Sutton 1977, *Ascomycota* genera *incertae sedis*, two species, type: *L. phillipsii* (Berk. & Leight.) D. Hawksw. & B. Sutton, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Europe, North America, see Seifert et al. (2011; genus accepted), Wijayawardene et al. (2012, 2017; outline), Pérez-Vargas et al. (2013; morphology, new species), cultures and sequences are unavailable, holotype of the type: TFC Lich 12742.

Leimonis R.C. Harris 2009, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *L. erratica* (Körb.) R.C. Harris & Lendemer, asexual morph unknown, lichenized, terrestrial, North America, see Harris (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are available.

Leioderma Nyl. 1888, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *L. pycnophorum* Nyl., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ekman et al. (2014; DNA, phylogeny), Lücking et al. (2017a; classification), sequences and cultures are available.

Leiorreuma Eschw. 1824, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 15 species, type: *L. hepaticum* Eschw., asexual morph unknown, lichenized, terrestrial, North America, see Lendemer and Knudsen (2008; new species), Moon et al. (2008; new species), Dubey et al. (2010; new species), Joshi et al. (2013a; Taiwan), Kirk et al. (2013; genus accepted), McDonald et al. (2013; DNA), Lücking et al. (2014, 2016a, b; taxonomy), Poengsungnoen et al. (2014; new species), Wang et al. (2015c; China), sequences and cultures are available.

Leiosphaerella Höhn. 1919 (= *Pseudomassariella* Petr. 1955 *fide* Species Fungorum 2017), *Xylariales* genera *incertae sedis*, *Sordariomycetes*, nine species, type: *L. praeclara* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Jaklitsch and Voglmayr (2012; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, isotype of the type: W11860, epitype and ex-epitype of the type species WU 31314, CBS 125586.

Leiothecium Samson & Mouch. 1975, *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, two species, type: *L. ellipsoideum* Samson & Mouch., saprobes, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Houbraken and Samson (2011; DNA), Kirk et al. (2013; genus accepted), Marin-Felix et al. (2014; new species, phylogeny), cultures and sequences are available.

Lemalis Fr. 1825 (= *Catinula* Lév. 1848; = *Patellina* Speg. 1880 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *L. alismatis* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable, holotype of type species unavailable.

Lembosia Lév. 1845 (= *Heraldoa* Bat. 1959; = *Lembosidium* Speg. 1921; = *Lembosiellina* Bat. & H. Maia 1960; = *Micrographa* Müll. Arg. 1890; = *Micrographomyces* Cif. & Tomas. 1953; = *Morenoella* Speg. 1885 *fide* Species Fungorum 2017), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, 257 species, type: *L. tenella* Lév., asexual morph unknown, epiphytes, biotrophic,

terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, DNA, keys), Wijayawardene et al. (2014c; outline), Guatimosim et al. (2015; phylogeny, DNA), Tibpromma et al. (2017b, new species), most species do not have molecular data.

Lembosiella Sacc. 1891, *Aulographaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *L. polyspora* (Pat.) Sacc., asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Aulographaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; accepted as a genus in *Aulographaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lembosina Theiss. 1913, *Aulographaceae*, *Dothideomycetes*, families *incertae sedis*, 21 species, type: *L. aulographoides* (E. Bommer, M. Rousseau & Sacc.) Theiss., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hyde et al. (2013; accepted as a genus in *Aulographaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; accepted as a genus in *Aulographaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lembosiopeltis Bat. & J.L. Bezerra 1967, *Dothideomycetes* genera *incertae sedis*, two species, type: *L. nectandrae* Bat. & J.L. Bezerra, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Lembosiopsis Theiss. 1918, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *L. andromedae* (Tracy & Earle) Theiss., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hyde et al. (2013; accepted as a genus in *Aulographaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; transferred to *Mycosphaerellaceae* from *Asterinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lembuncula Cif. 1954, *Ascomycota* genera *incertae sedis*, one species, type: *L. pothoidei* Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, Santo Domingo, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lemkea Morgan-Jones & R.C. Sinclair 1983, *Ascomycota* genera *incertae sedis*, one species, type: *L. sphaerospora* Morgan-Jones & R.C. Sinclair, hyphomycetous, sexual morph unknown, saprobes, lignicolous, North America, South Africa, Spain, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lemmopsis (Vain.) Zahlbr. 1906 (= *Leptogium* sect. Lemmopsis Vain. 1890 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *L. arnoldiana* (Hepp) Zahlbr., asexual morph unknown, lichenized, terrestrial, Europe, see van den Boom and Brand (2008; Netherlands), Lumbsch and Huhndorf (2010; outline), Motiejūnaitė (2012; Lithuania), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Lemonniera De Wild. 1894, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, seven species, type: *L. aquatica* De Wild., hyphomycetous, sexual morph unknown, saprobes, aquatic, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lempholemma Körb. 1855 (= *Arnoldia* A. Massal. 1856; = *Physma* sect. Plectopsora (A. Massal.) Zahlbr. 1906; = *Plectopsora* A. Massal. 1860 [1859-1860]; = *Schizoma* Nyl. ex Cromb. 1894; = *Synalissina* Nyl. 1885 [1885-86] *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 35 species, type: *L. compactum* (Wallr.) Körb., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Prieto et al. (2012; DNA, phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available but lack for the type species.

Lentithecium K.D. Hyde, J. Fourn. & Ying Zhang 2009, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, ten species, type: *L. fluviatile* (Aptroot & Van Ryck.) K.D. Hyde, asexual morph coelomycetous, saprobes, aquatic (freshwater or marine), Europe, Japan, Africa, see, Zhang et al. (2009d; taxonomy, phylogeny), Hyde et al. (2013, 2016; taxonomy, phylogeny), Wijayawardene et al. (2014c, 2017; outline), Su et al. (2016c; new species), Tibpromma et al. (2017b; taxonomy, phylogeny), cultures and sequence are available, holotype of type species GENT (509).

Lentomitella Höhn. 1906 (= *Eutypopsis* P. Karst. 1878; = *Linostomella* Petr. 1925 *fide* Species Fungorum 2017), *Sordariomycetidae*, genera *incertae sedis*, seven species, type: *L. vestita* (Sacc.) Höhn., saprobes, terrestrial, temperate, see Huhndorf et al. (2008; new species, DNA, phylogeny), Marincowitz et al. (2008; new species, South Africa), Raja and Shearer (2009a, b; compare with *Hanliniomyces*), Réblová and Štěpánek (2009;

phylogeny), Lumbsch and Huhndorf (2010; outline), Réblová et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data and cultures available but lacking for the type species.

Leohumicola N.L. Nick. 2005, *Leotiomycetes* genera *incertae sedis*, seven species, type: *L. verrucosa* N.L. Nick., Hambl. & Seifert, saprobes, from soil, terrestrial, worldwide, see Nguyen and Seifert (2008; new species, phylogeny), Chen et al. (2009; new records to China), Wijayawardene et al. (2012, 2017; outline), Takashima et al. (2014; symbiotic associations with *Lycopodiaceae* roots), holotype and ex-type of the type: DAOM 226889, DAOM226889.

Leotia Pers. 1797 (= *Cucullaria* Corda 1842; = *Fungodaster* Haller ex Kuntze 1891; = *Hygromitra* Nees 1816 [1816-17]; = *Leotia* Pers. 1801 *fide* Species Fungorum 2017), *Leotiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *L. lubrica* (Scop.) Pers., asexual morph unknown, lichenized, terrestrial, worldwide, see Palmer et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, type specimen of type species CBS H-13841.

Lepidocollema Vain. 1890 (see Species Fungorum 2017 for synonyms), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *L. carassense* Vain., lichenized, Brazil, Solomon Islands, see Lumbsch and Huhndorf (2010; outline), Ekman et al. (2014; new species), Lücking et al. (2017a; classification), cultures and sequences are available.

Lepidopterella Shearer & J.L. Crane 1980, *Argynnaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *L. palustris* Shearer & J.L. Crane, asexual morph unknown, saprobes, aquatic, USA, see Shearer et al. (2009; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Argynnaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Peter et al. (2016; DNA, comparison), cultures available for the type species CBS 459.81.

Lepidosphaeria Parg.-Leduc 1970, *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *L. nicotiae* Parg.-Leduc, asexual morph unknown, saprobes, aquatic, USA, see Kruys and Wedin (2009; DNA), Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Testudinaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available, type specimen and cultures available for type species CBS H-7282, CBS 559.71 (*fide* Kruys and Wedin 2009).

Lepidotia Boud. 1885, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *L. hispida* (Quél.) Boud., asexual morph unknown, saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list the genus), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Lepisticola W. Gams 2009 (= *Harziella* Costantin & Matr. 1899 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *L. capitata* (Costantin & Matr.) W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, Europe, see Gams et al. (2009; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of type species unavailable.

Leprantha Dufour ex Körb. 1855 (see Species Fungorum 2017 for synonyms), *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: need typification, lichenized, see Lücking et al. (2017a; classification), sequences are unavailable.

Lepraria Ach. 1803 (= *Amphiloma* Nyl. 1855; = *Conia* Vent. 1799; = *Epinyctis* Wallr. 1831; = *Pulina* Adans. 1763 *fide* Species Fungorum 2017), *Stereocaulaceae*, *Lecanorales*, *Lecanoromycetes*, 74 species, type: *L. incana* (L.) Ach., sterile, terrestrial (various substrata), cosmopolitan, see Nelsen et al. (2008; phylogeny), Lendemer (2010a, 2011, 2013; new species, DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Flakus and Kukwa (2011; new species), Flakus et al. (2011; new species), Bungartz et al. (2013b; new species), Elix (2013; new species), Lendemer and Hodkinson (2013; DNA, phylogeny), Miądlikowska et al. (2014a, DNA), sequences are available.

Leprieuria Læssøe, J.D. Rogers & Whalley 1989, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *L. bacillum* (Mont.) Læssøe, J.D. Rogers & Whalley, asexual morph geniculosporium-like, saprobes, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stadler et al. (2013), Daranagama et al. (2017 morphology, taxonomy, key), sequences are unavailable.

Leprieurinella Bat. & H. Maia 1961, *Ascomycota* genera *incertae sedis*, one species, type: *L. ingae* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leprocaulon Nyl. 1879, *Leprocaulaceae*, *Leprocaulales*, *Lecanoromycetes*, 17 species, type: *L. nanum* Nyl., coelomycetous, lichenized, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lendemer and Hodkinson (2013; new species), Lücking et al. (2017a; classification), cultures and sequences are available.

Leprocollema Vain. 1890, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *L. americanum* Vain., lichenized, Europe, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2016a, b; classification), cultures and sequences are unavailable.

Leproplaca (Nyl.) Nyl. 1888 (see Species Fungorum 2017 for synonyms), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, six species, type: *L. xantholyta* (Nyl.) Nyl., lichenized, Europe, see Arup et al. (2013; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Leptascospora Speg. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *L. uredinis* (Racib.) Speg., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded the genus from *Meliolaceae*), cultures and sequences are unavailable, holotype of type species unavailable.

Lepteutypa Petr. 1923, *Amphisphaeriaceae*, *Amphisphaeriales*, *Sordariomycetes*, c. 20 species, type: *L. fuckelii* (Nitschke) Petr., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016b; new species, phylogeny), cultures and sequences are unavailable.

Leptochidium M. Choisy 1952, *Massalongiaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *L. albociliatum* (Desm.) M. Choisy, lichenized, Europe, North America, see Lücking et al. (2017a; classification), cultures and sequences are available.

Leptochlamys Died. 1921, *Ascomycota* genera *incertae sedis*, one species, type: *L. scapicola* (P. Karst.) Died., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leptocucurthis Aptroot 1998, *Dacampiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *L. quadrata* Aptroot, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Dacampiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of the type species CBS, Aptroot 37234.

Leptodermella Höhn. 1915, *Ascomycota* genera *incertae sedis*, one species, type: *L. incarnata* (Bres.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leptodiscella Papendorf 1969, *Dothideomycetes* genera *incertae sedis*, four species, type: *L. africana* (Papendorf) Papendorf, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, Spain, South Africa, see Madrid et al. (2011b; new species, DNA), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures for the type: CBS 400.65, type specimen of type species CBS H-720.

Leptodontidium de Hoog 1979 (= *Leptodontium* de Hoog 1977 *fide* Species Fungorum 2017), *Leptodontidiaceae*, *Helotiales*, *Leotiomycetes*, eleven species, type: *L. elatius* (F. Mangenot) de Hoog, sexual morph unknown, saprobes, terrestrial, Europe, North America, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), cultures and sequences are available, holotype and cultures for the type species CBS H-7283, CBS 329.53 (Sogonov et al. 2008).

Leptogidium Nyl. 1873 (see Species Fungorum 2017 for synonyms), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, three species, type: *L. dendriscum* (Nyl.) Nyl., lichenized, Europe, North America, see Muggia et al. (2011b; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Leptogium (Ach.) Gray 1821 (see Species Fungorum 2017 for synonyms), *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, 70 species, type: *L. lacerum* (Sw.) Gray, lichenized, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species unavailable.

Leptographium Lagerb. & Melin 1927, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, 68 species, type: *L. lundbergii* Lagerb. & Melin, asexual morph unknown, hyphomycetous, saprobes, worldwide, see Zhou et al. (2008; new species), Seifert et al. (2011; morphology), Duong et al. (2012; new species), Wijayawardene et al. (2012, 2017; outline), Paciura et al. (2010a; new species), de Beer et al. (2013; new species), Kirk et al. (2013; genus accepted), Huang and Chen (2014; new species), Romón et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Yin et al. (2015; new species), cultures and sequences are available.

Leptoguignardia E. Müll. 1955, *Phyllostictaceae*, *Botryosphaeriales*, *Dothideomycetes*, three species, type: *L. onobrychidis* E. Müll., asexual morph unknown,

saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Botryosphaeriaceae*), Liu et al. (2012b; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c, 2017; outline, accepted as a genus in *Phyllostictaceae*), cultures and sequences are unavailable, type specimen of type species CBS H-13858.

Leptokalpion Brumm. 1977, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, two species, type: *L. albicans* Brumm., asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leptomassaria Petr. 1914, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *L. simplex* (Nitschke ex G.H. Otth) Petr., asexual morph unknown, saprobes, Europe and Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Daranagama et al. (2017 morphology, taxonomy, key), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), sequences are unavailable, placement in *Xylariaceae* needs to be confirmed by molecular data.

Leptomelanconium Petr. 1923, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *L. asperulum* (Moesz) Petr., coelomycetous, sexual morph teratosphaeria-like, saprobes, terrestrial, north temperate, see Crous et al. (2009f; transferred *L. australiense* to *Teratosphaeria*), Zhao and Zhao (2012; new species), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2016b; outline, taxonomy, accepted as a genus in *Teratosphaeriaceae*), cultures and sequences are unavailable.

Leptomeliola Höhn. 1919 (= *Phaeophragmeriella* Hansf. 1944; = *Stevensula* Speg. 1921 *fide* Species Fungorum 2017), *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, nine species, type: *L. hyalospora* (Lév.) Höhn., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; symbiosis with bryophytes, DNA), Silvério et al. (2011; taxonomy, South America), Hyde et al. (2013; accepted in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type species.

Leptopeltis Höhn. 1917 (= *Dothithyrella* Höhn. 1918; = *Leptopeltella* Höhn. 1917; = *Leptopeltina* Petr. 1947; = *Leptopeltinella* Petr. 1951; = *Leptopeltopsis* Petr. 1947; = *Moesziella* Petr. 1927; = *Moeszopeltis* Petr. 1947; = *Opegraphellomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Leptopeltidaceae*, *Dothideomycetes* genera *incertae sedis*, one species, type: *L. filicina* (Lib.) Höhn., asexual morph leptothyrium-like, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted as a genus in *Leptopeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, available specimen of type: CBS H-13860.

Leptoperidia Rappaz 1987 (= *Paraeutypa* Subram. & Ananthap. 1988 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *L. macropunctata* (Rehm) Rappaz, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, available specimen of type: CBS H-6460.

Leptophyllosticta I.E. Brezhnev 1939, *Ascomycota* genera *incertae sedis*, two species, type: *L. lychnitis* I.E. Brezhnev, coelomycetous, sexual morph unknown, saprobes, terrestrial, former USSR, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leptorhaphis Körb. 1855 (= *Campylacia* A. Massal. ex Beltr. 1858; = *Endophis* Norman 1852; = *Leptomycorhaphis* Cif. & Tomas. 1953; = *Leptorhaphiomyces* Cif. & Tomas. 1953; = *Microtheliomyces* Cif. & Tomas. 1953; = *Mycoleptorhaphis* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Naetrocymbaceae*, *Dothideomycetes* genera *incertae sedis*, 15 species, type: *L. oxyspora* (Nyl.) Körb., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted in *Naetrocymbaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Leptosacca Syd. 1928, *Sordariomycetes* genera *incertae sedis*, two species, type: *L. lumae* Syd., asexual morph unknown, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type species.

Leptosillia Höhn. 1928, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *L. notha* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Leptosphaerella Speg. 1909, *Sordariomycetes* genera *incertae sedis*, seven species, type: *L. fagaricola* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline),

Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Leptosphaeria Ces. & De Not. 1863 (see Species Fungorum 2017 for synonyms), *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 148 species, type: *L. doliolum* (Pers.) Ces. & De Not., asexual morph coelomycetous, saprobes or parasitic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012a, b; taxonomy, phylogeny), Hyde et al. (2013, 2016; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c, 2017; outline), Ariyawansa et al. (2015b; taxonomy, phylogeny), Dayarathne et al. (2015; new species), cultures and sequence are available, available specimen for type: CBS H-13880.

Leptosphaerulina McAlpine 1902 (= *Pseudoplea* Höhn. 1918; = *Scleropleella* Höhn. 1918 *fide* Species Fungorum 2017), *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, 30 species, type: *L. australis* McAlpine, asexual morph hyphomycetous (pithomyces-like), saprobes, terrestrial, worldwide, see de Gruyter et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Crous et al. (2011d; DNA, phylogeny, on *Proteaceae*), Zhang et al. (2012e; DNA, phylogeny), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2013; new species with asexual morphs), Wijayawardene et al. (2014c; outline), Chen et al. (2015b; phylogeny), cultures and sequences are available, available specimen and cultures for type: CBS H-13980, CBS 311.51.

Leptospora Rabenh. 1857, *Dothideomycetes* genera *incertae sedis*, 15 species, type: *L. porphyrogona* (Tode) Rabenh., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted in *Naetrocymbaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Hyde et al. (2016; new species), cultures and sequences are available, holotype of type species unavailable.

Leptosporella Penz. & Sacc. 1897, *Chaetosphaeriales* genera *incertae sedis*, *Sordariomycetes*, twelve species, type: *L. gregaria* Penz. & Sacc., asexual morph unknown, saprobes, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Huhndorf and Miller (2011; morphology, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Dai et al. (2017; morphology, phylogeny, new species), cultures and sequences are available but lacking for type material.

Leptostromella (Sacc.) Sacc. 1884 (= *Discostromella* Petr. 1924; = *Leptostroma* subgen. *Leptostromella* Sacc. 1882; = *Leptostromella* subgen. *Leptostromella* (Sacc.) Sacc. 1884 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *L. septorioides* Sacc. & Roum., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leptothyrella Sacc. 1885 (= *Asterinula* Ellis & Everh. 1889 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, ten species, type: *L. mougeotiana* Sacc. & Roum., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species unavailable.

Leptothyrina Höhn. 1915, *Ascomycota* genera *incertae sedis*, one species, type: *L. rubi* (Duby) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Switzerland, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species unavailable.

Leptothyrium Kunze 1823 (= *Manginulopsis* Bat. & Peres 1963; = *Myxodiscus* Höhn. 1906; = *Rhabdothyrella* Höhn. 1917; = *Rhabdothyrium* Höhn. 1915 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *L. lunariae* Kunze, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leptotrochila P. Karst. 1871 (= *Dibelonis* Clem. 1909; = *Dibelonis* Clem. & Shear 1931; = *Ephelina* Sacc. 1889; = *Fabraea* Sacc. 1881; = *Placopezizia* Höhn. = *Sporonema* Desm. 1874 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, 15 species, type: *L. radians* (Desm.) P. Karst., asexual morphs formerly named in *Sporonema*, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequence are unavailable.

Leptoxyphium Speg. 1918 (= *Astragoxyphium* Bat., Nascim. & Cif. 1963; = *Caldariomyces* Woron. 1926; = *Megaloxyphium* Cif., Bat. & Nascim. 1956 *fide* Species Fungorum 2017), *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *L. graminum* (Pat.) Speg., asexual morph unknown, sooty moulds, terrestrial, cosmopolitan, see Cheewangkoon et al. (2009; DNA, phylogeny), Chomnunti et al. (2011; taxonomy, new species), Crous et al. (2011a; new species), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Yang et al. (2014a; DNA, new species), Hongsanan et al. (2016c, evolution), Kajale

et al. (2015; associated with insects), Park et al. (2015; pathogens), cultures and sequences are available.

Letendraea Sacc. 1880, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. eurotioides* Sacc. asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2014e; taxonomy, DNA, phylogeny), Hyde et al. (2013; accepted in *Didymosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures available for the type species CBS 212.31 (*fide* Kodsueb et al. 2016).

Letendraeopsis K.F. Rodrigues & Samuels 1994, *Dothideomycetes* genera *incertae sedis*, one species, type: *L. palmarum* K.F. Rodrigues & Samuels, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Tubeufiaceae*), Hyde et al. (2013; not accepted in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; not listed in *Tubeufiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Letharia (Th. Fr.) Zahlbr. 1892 (= *Chlorea* Nyl. 1855; = *Evernia* subdiv. *Letharia* Th. Fr. 1871; = *Nylanderaria* Kuntze 1891; = *Rhytidocaulon* Nyl. ex Elenkin 1916 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *L. vulpina* (L.) Hue, asexual morph unknown, lichenized, terrestrial, worldwide, see McCune and Altermann (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lethariella (Motyka) Krog 1976 (= *Usnea* subgen. *Lethariella* Motyka 1936 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, ten species, type: *L. intricata* (Moris) Krog, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Letrouitia Hafellner & Bellem. 1982, *Letrouitiaceae*, *Teloschistales*, *Lecanoromycetes*, 16 species, type: *L. domingensis* (Pers.) Hafellner & Bellem., asexual morph unknown, lichenized, terrestrial, worldwide, see Elix and Kondratyuk (2008; new species), Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; DNA, phylogeny), Joshi et al. (2013b; Vietnam), Kirk et al. (2013; genus accepted), cultures available for type species AFTOL-ID 102.

Lettauia D. Hawksw. & R. Sant. 1990, *Fuscideaeaceae*, *Umbilicariales*, *Lecanoromycetes*, three species, type: *L. cladoniicola* D. Hawksw. & R. Sant., asexual morph unknown, on lichens, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2103; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences not available, holotype of type species B 7700.

Leucangium Quél. 1883, *Morchellaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *L. ophthalmosporum* Quél., asexual morph unknown, saprobes, hypogeous, worldwide, see Lumbsch and Huhndorf (2010; outline), Sbissi et al. (2010; phylogeny, comparison), Trappe et al. (2010b; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Leucoconiella Bat., H. Maia & Peres 1960, *Ascomycota* genera *incertae sedis*, type species *L. paraguayensis* Bat., H. Maia & Peres, asexual morph unknown, saprobes, terrestrial, Paraguay, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leucoconis Theiss. & Syd. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *L. erysiphina* (Syd. & P. Syd.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leucodecton A. Massal. 1860, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, type: *L. compunctum* (Ach.) A. Massal., asexual morph unknown, lichenized, terrestrial, pantropical, see Mangold et al. (2009; key, Australia), Rivas Plata et al. (2010a; key), Sipman et al. (2012; key, Costa Rica), Joshi et al. (2010b, 2012; Korea, India), Lumbsch and Huhndorf (2010; outline), Lücking and Breuss (2012; new combination), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type species.

Leucodermia Kalb 2015, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, ten species, type: *L. leucomelos* (L.) Kalb, lichenized, see Mongkolsuk et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species GB, Arvidsson & Arvidsson 4158 (as *Heterodermia fertilis* Moberg).

Leucodiaporthe Lar. N. Vassiljeva 2007, *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *L. acerina* M.E. Barr & Lar. N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: VLA P-2941.

Leucodochium Syd. & P. Syd. 1917, *Ascomycota* genera *incertae sedis*, type: *L. pipturi* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline),

Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leucoglossum S. Imai 1942, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, two species, type: *L. durandii* (Teng) S. Imai, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline, accepted as *Leotiomycetes*), Arauzo and Iglesias (2014; new species), Fedosova and Kovalenko (2015; DNA, phylogeny, Russia), cultures and sequences are available but lacking for the type species.

Leuconeurospora Malloch & Cain 1970, *Pseudeurotiaceae*, *Leotiomycetes* families *incertae sedis*, three species, type: *L. pulcherrima* (G. Winter) Malloch & Cain, asexual morph unknown, saprobes, terrestrial, Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, type specimen and cultures available for type species CBS H-14009, CBS 343.76.

Leucoscypha Boud. 1885, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *L. leucotricha* (Alb. & Schwein.) Boud., asexual morph unknown, hypogeous, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Leucosphaerina Arx 1987 (= *Leucosphaera* Arx, Mukerji & N. Singh 1978 *fide* Species Fungorum 2017), *Hypocreales* genera *incertae sedis*, *Hypocreales*, *Sordariomycetes*, two species, type: *L. indica* (Arx, Mukerji & N. Singh) Arx, asexual morph hyphomycetous, terrestrial, saprobes, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Bionectriaceae*), Giraldo et al. (2012; phylogeny), cultures and sequences are available, cultures available for type: CBS 123.78.

Leucothecium Arx & Samson 1973, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, three species, type: *L. emdenii* Arx & Samson, asexual morph unknown, saprobes, on marine and river sediments, Spain, see Gueidan et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted in *Onygenaceae*), Kirk et al. (2013; genus accepted), Giraldo et al. (2014a; DNA, phylogeny), cultures and sequences are available, available specimen and cultures for the type: CBS H-7299 CBS 576.73.

Leucovibrissea (A. Sánchez) Korf 1990 (= *Vibrissea* sect. *Leucovibrissea* A. Sánchez 1966 *fide* Species Fungorum 2017), *Vibrisseaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *L. obconica* (Kanouse) Korf, asexual morph unknown, from fine roots of *Pinus*, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leuliisinea Matsush. 1985, [as *'Leuiisinea'*], *Ascomycota* genera *incertae sedis*, two species, type: *L. bambusicola* Matsush., hyphomycetous, sexual morph unknown, saprobes, lignicolous, Australia, Peru and Taiwan, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Leveillella Theiss. & Syd. 1915 (= *Parasterinella* Speg. 1924 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *L. drimydis* (Lév.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, Chile, see Hofmann (2009; review, accepted in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, excluded from *Asterinaceae*), Wijayawardene et al. (2014c; outline, accepted in *Dothideomycetes*), cultures and sequences are unavailable.

Leveillina Theiss. & Syd. 1915, *Dothideomycetes* genera *incertae sedis*, two species, type: *L. arduinae* (Kalchbr. & Cooke) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, Africa, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Leveillula G. Arnaud 1921, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, 40 species, type: *L. taurica* (Lév.) G. Arnaud (≡ *Erysiphe taurica* Lév.), hyphomycetous asexual morphs, obligate plant pathogens, terrestrial, worldwide, see Khodaparast et al. (2012, 2016; phylogeny), Braun & Cook (2012; taxonomy), sequences are available, lectotype of type: G 00298357.

Libartania Nag Raj 1979, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *L. laserpitii* (Bres.) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Liberomyces Pažoutová, M. Kolařík & Kubátová 2012, *Sordariomycetes* genera *incertae sedis*, two species, type: *L. saliciphilus* Paoutová, M. Kolarík & Kubátová, coelomycetous, sexual morph unknown, endophytes, terrestrial, Czech Republic, see Pažoutová et al. (2012; morphology, DNA), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures and sequences are available, holotype and ex-type of the type species PRM 921954, CCF 4020.

Libertasomyces Crous & Roets 2016, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *L. myopori* Crous & Roets, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, New Zealand, see Crous et al. (2016a, b; new species,

phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22617, CPC 27354.

Libertiella Speg. & Roum. 1880 (= *Nicholsoniella* Kuntze 1891; = *Shecutia* Nieuwl. 1916 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, six species, type: *L. malmedyensis* Speg. & Roum., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Motiejūnaitė et al. (2011; record from Lithuania), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), current generic concept is uncertain, cultures and sequences are unavailable.

Lichenobactridium Diederich & Etayo 1995, *Ascomycota* genera *incertae sedis*, one species, type: *L. pertusariae* Diederich & Etayo, hyphomycetous, sexual morph unknown, lichenicolous, non-lichenized, terrestrial, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type species LG, Diederich 9219.

Lichenobarya Etayo, Diederich & Lawrey 2015, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *L. usneae* (Etayo) Etayo, Diederich & Lawrey, asexual morphs unknown, lichenicolous, terrestrial, Europe, see Lawrey et al. (2015; taxonomy, phylogeny), sequences are available.

Lichenochora Hafellner 1989 (= *Laestadia* [unranked] *Paralaestadia* Sacc. & D. Sacc. 1905; = *Paralaestadia* (Sacc. & D. Sacc.) Vain. 1921 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, five species, type: *L. thallina* (Cooke) Hafellner, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Etayo and Navarro-Rosines (2008; new species), Zhurbenko (2008; new species, Italy), Halici et al. (2009b; new species), Lumbsch and Huhndorf (2010; outline), Etayo (2011; new species), Hafellner and Zimmermann (2012; new species), Etayo et al. (2013b; new species), Kirk et al. (2013; genus accepted), Zhurbenko (2103; new species), Lendemer et al. (2016; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: K.

Lichenoconium Petr. & Syd. 1927, *Lichenoconiaceae*, *Lichenoconiales*, *Dothideomycetes*, five species, type: *L. lichenicola* (P. Karst.) Petr. & Syd., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, worldwide, see Lawrey et al. (2011; new species), Wijayawardene et al. (2012, 2014c, 2016b; outline, taxonomy), Hyde et al. (2013; taxonomy), cultures and sequences are available but lacking for the type species.

Lichenodiplis Dyko & D. Hawksw. 1979, *Chaetothyriales* genera *incertae sedis*, *Eurotiomycetes*, 13 species, type: *L. lecanorae* (Vouaux) Dyko & D. Hawksw., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, worldwide, see Atienza et al. (2009; morphology, new species), Knudsen and Kocourkova (2009; morphology, new species), Kirk et al. (2013; genus accepted), Pérez-Vargas et al. (2013; new species), Muggia et al. (2015b; phylogeny), Wijayawardene et al. (2016b; outline, morphology, phylogeny), cultures and sequences are available, lectotype of type species ANGUC.

Lichenohendersonia Calatayud & Etayo 2001, *Ascomycota* genera *incertae sedis*, three species, type: *L. squamarinae* Calat. & Etayo, sexual morph unknown, parasymbiont on different lichens, terrestrial, Northern Hemisphere, see Wijayawardene et al. (2016b; morphology), sequence data and cultures unavailable, holotype of the type: IMI 363556.

Lichenopeltella Höhn. 1919 (= *Didymopyrostroma* Bat. & Cavalc. 1964 [1962]; = *Micropeltopsis* Vain. 1921; = *Microthyris* Clem. 1931; = *Trichothyrina* (Petr.) Petr. 1950; = *Trichothyrium* subgen. *Trichothyrina* Petr. 1940 *fide* Species Fungorum 2017), *Trichothyriaceae*, *Dothideomycetes*, families *incertae sedis*, c. 31 species, type: *L. maculans* (Zopf) Höhn., asexual morph unknown, saprobes, lichenicolous, terrestrial, worldwide, see Pérez-Ortega and Spribille (2009; new species), Etayo (2010a, b; new species), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Zhurbenko (2010a; new species), Brackel (2010b, 2011b; new species), Flakus and Kukwa (2012; new records in Bolivia), van den Boom and Giralt (2012; records in Portugal), Hyde et al. (2013; accepted as a genus in *Aulographaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014a; transferred to *Mycosphaerellaceae* from *Asterinaceae*), Wijayawardene et al. (2014c; outline), Zhurbenko and Pino-Bodas (2015; new species, New Zealand), cultures and sequences are unavailable.

Lichenopeziza Zukal 1884, *Ascomycota* genera *incertae sedis*, one species, type: *L. bryophile* Zukal, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), current generic concept is uncertain, cultures and sequences are unavailable.

Lichenopuccinia D. Hawksw. & Hafellner 1984, *Ascomycota* genera *incertae sedis*, one species, type: *L. poeltii* D. Hawksw. & Hafellner, sexual morphs unknown, terrestrial, lichenicolous, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species K(M)-IMI 281393.

Lichenopyrenis Calat., M.J. Sanz & Aptroot 2001, *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. galligena* Calat., M.J. Sanz & Aptroot, asexual morph unknown, lichenicolous, terrestrial, Spain,

Canada, Japan, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; accepted as a genus in *Pleomassariaceae*), Hyde et al. (2013; accepted as a genus in *Pleomassariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of the type species MA (Lich.) 12715.

Lichenostella Etayo & Calat. 1999, *Ascomycota* genera *incertae sedis*, one species, type: *L. hypotrachynae* Etayo & Calat., hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lichenosticta Zopf 1898, *Lecanorales* genera *incertae sedis*, one species, type: *L. podetiicola* Zopf, coelomycetous, sexual morph unknown, lichenicolous, terrestrial, north temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Pino-Bodas et al. (2017; new species, phylogeny), current generic concept is uncertain, cultures and sequences are unavailable.

Lichenostigma Hafellner 1983 (= *Diederimyces* Etayo 1995; = *Phaeosporobolus* D. Hawksw. & Hafellner 1986 *fide* Ertz et al. 2014b; Species Fungorum 2017), *Phaeococcomycetaceae*, *Lichenostigmatales*, *Arthoniomycetes*, type: *L. maureri* Hafellner, asexual morph hyphomycetous, lichenicolous, terrestrial, worldwide, see Pérez-Ortega and Calatayud (2009; new species, Spain), Fernández-Brime et al. (2010; new species), Knudsen and Kocourkova (2010a, b; new species), Lumbsch and Huhndorf (2010; outline), Valadbeigi and Brackel (2011; new species), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2013b; new species), Ertz et al. (2014b; new species; phylogeny), cultures and sequences are available, current generic concept is uncertain, cultures available for type species Diederich 1730, Diederich 17337, Diederich 17326, Diederich 17337.

Lichenothelia D. Hawksw. 1981 (= *Anzia* Garov. 1868 *fide* Species Fungorum 2017), *Lichenotheliaceae*, *Lichenotheliales*, *Dothideomycetes*, 29 species, type: *L. scopularia* (Nyl.) D. Hawksw., asexual morphs pycnidial or hyphomycetous, on rock or lichenicolous, terrestrial, widespread, some species may belong in *Lichenostigma* Hafellner, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; genus accepted), Muggia et al. (2015a; phylogeny), Jaklitsch et al. (2016a; position), cultures and sequences are available, isotypes of type species BM and K(M) [Anzi, Lich. Langob. 35].

Lichenoverruculina Etayo 2011, *Sordariomycetes* genera *incertae sedis*, one species, type: *L. sigmatospora* (Speg.) Etayo & Sharuddin, asexual morph unknown, lichenicolous on *Heterodermia*, terrestrial, South America, see Etayo and Sharuddin (2011; genus proposed), cultures and sequences are unavailable, holotype of the type species J. Puiggari 124 (LPS-1715).

Lichina C. Agardh [nom. cons.] 1817 (= *Lichinomyces* E.A. Thomas ex Cif. & Tomas. 1939; = *Neolichina* Gyeln. 1940; = *Pygmaea* Stackh. 1809; = *Thamnidium* Tuck. ex Schwend. 1869 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, nine species, type: *L. pygmaea* (Lightf.) C. Agardh, lichenized, marine, west-European coast, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lichinella Nyl. 1873 (= *Gonohymenia* J. Steiner 1902; = *Rechingeria* Servít 1931 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 30 species, type: *L. stipatula* Nyl., lichenized, North America, Europe, Asia, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Lichinodium Nyl. 1875, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, four species, type: *L. sirosiphoideum* Nyl., lichenized, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Licopolia Sacc., Syd. & P. Syd. 1900, *Dothideomycetes* genera *incertae sedis*, two species, type: *L. franciscana* Sacc., Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Brazil, Kenya, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lignincola Höhnk 1955, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, four species, type: *L. laevis* Höhnk, asexual morph unknown, saprobes, marine, worldwide, see Jones et al. (2009b, 2015; classification), Alias et al. (2010; diversity), Abdel-Wahab (2011a; diversity), Liu et al. (2011a; morphology), Pang et al. (2011b, 2013b; monograph, phylogeny), Sakayaroj et al. (2011a, b; phylogeny, diversity), Lee et al. (2012; checklist), Pang and Jheng (2012a; checklist), Alsheikh-Hussain et al. (2014, review), Overy et al. (2014; natural product), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, neotype of type species J.K. 4459a.

Ligninsphaeria J.F. Zhang, J.K. Liu, K.D. Hyde & Z.Y. Liu 2016, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *L. jonesii* J.F. Zhang, J.K. Liu, K.D. Hyde & Z.Y. Liu, saprobes, Thailand, see Zhang et al. (2016b; taxonomy, phylogeny), holotype: MFLU 15-2718, cultures and sequences are available.

Lignoscripta B.D. Ryan 2004, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, one species, type: *L. atroalba* B.D. Ryan & T.H. Nash, lichenized, Pacific Northwest, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Lücking et al. (2017a, b; classification), cultures and sequences are unavailable, holotype of type species ASU (9092).

Lignosphaeria Boonmee, Thambug. & K.D. Hyde 2015, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *L. thailandica* Boonmee, Thambug. & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Thambugala et al. (2015b; morphology, phylogeny), holotype and ex-type of type: MFLU 11–0135, MFLUCC 11–0376.

Lillicoa Sherwood 1977, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *L. palicoureae* (Seaver & Whetzel) Sherwood, saprobes, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Limaciniaseta D.R. Reynolds 1988, *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *L. californica* D.R. Reynolds, asexual morph unknown, saprobes, terrestrial, USA, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Limaciniopsis J.M. Mend. 1925, *Dothideomycetes* genera *incertae sedis*, type: *L. rollandiae* J.M. Mend., data inadequate, see Kirk et al. (2008; treated as nom. dub.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable,

Limacinula Höhn. 1907 (= *Deslandesia* Bat. 1962; = *Limacinia* subgen. *Limacinula* Sacc. & D. Sacc. 1905; = *Limacinula* (Sacc. & D. Sacc.) Höhn. 1909; = *Naetrocymbe* Bat. & Cif. 1963; = *Shanoriella* Bat. & Cif. 1962; = *Teichospora* subgen. *Teichosporina* G. Arnaud 1911; = *Teichosporina* (G. Arnaud) Cif. & Bat. 1962 *fide* Species Fungorum 2017), *Coccodiniaceae*, *Chaetothyriales*, *Eurotiomycetes*, c. 16 species, type: *L. samoënsis* Höhn., aerial surface of living plants, epifoliar fungus, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Limacospora Jørg. Koch & E.B.G. Jones 1995, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *L. sundica* (Jørg. Koch & E.B.G. Jones) Jørg. Koch & E.B.G. Jones, asexual morph unknown, saprobes, marine, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Limboria Ach. 1815, *Pezizomycetes* genera incertae sedis, type: *L. constellata* Ach., see Lücking et al. (2017b: nomenclature, typification), sequences are unavailable.

Limnaiomyces Thaxt. 1900, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *L. tropisterni* Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Limtongia Jindam., Am-in, Yukphan & Y. Yamada 2011, *Lipomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *L. smithiae* (Van der Walt, M.J. Wingf. & Y. Yamada) Jindam., Am-in, Yukphan & Y. Yamada, saprophytic, see Jindamorakot et al. (2011; taxonomy), cultures and sequences are unavailable.

Lindauella Rehm 1900, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *L. pyrenocarpoidea* Rehm, asexual morph unknown, from living leaves, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Lindgomyces K. Hiray., Kaz. Tanaka & Shearer 2010, *Lindgomycetaceae*, *Pleosporales*, *Dothideomycetes*, 13 species, type species: *L. ingoldianus* (Shearer & K.D. Hyde) K. Hiray., Kaz. Tanaka & Shearer, asexual morph unknown, saprobes, aquatic, China, Japan, USA, see Hirayama et al. (2010; morphology, phylogeny), Raja et al. (2011b, 2013a; morphology, phylogeny), Zhang et al. (2014e; morphology, phylogeny), Crous et al. (2015e; morphology, phylogeny), Li et al. (2016a; morphology, phylogeny), Raja et al. (2017; taxonomy), cultures and sequences are available, holotype and ex-type of the type species ILLS 52289, ATCC 200398.

Lindquistomyces Aramb., E. Müll. & Gamundí 1982, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *L. antarcticus* (Speg.) Aramb., E. Müll. & Gamundí (Art. 33.3; Invalid), asexual morph unknown, saprobes, terrestrial, Argentina, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lindra I. M. Wilson 1956, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, five species, type: *L. inflata* I.M. Wilson, asexual morph hyphomycetous, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2016b; outline), sequences are available, holotype of type: IMI 62909, needs generic revision as it is polyphyletic, type species needs to be sequenced.

Lineolata Kohlm. & Volkm.-Kohlm. 1990, *Dothideomycetes* genera *incertae sedis*, one species, type:

L. rhizophorae (Kohlm. & E. Kohlm.) Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b, 2015; classification), Alias et al. (2010; diversity), Sakayaroj et al. (2011b; diversity), Zhang et al. (2012e; phylogeny, morphology), Abdel-Wahab et al. (2014; diversity), Wijayawardene et al. (2014c; outline), holotype of type: J.K. 2390a.

Lineostroma H.J. Swart 1988, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. banksiae* (Cooke) H.J. Swart, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Jayasiri et al. (2016a; classification), cultures and sequences are unavailable, available specimen for type: CBS H-5512.

Linkosia A. Hern.-Gut. & B. Sutton 1997, *Ascomycota* genera *incertae sedis*, ten species, type: *L. coccothrinacis* (A. Hern. Gut. & J. Mena) A. Hern. Gut. & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Ma et al. (2011a; morphology), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Almeida et al. (2014c; morphology, new species), Delgado (2014; morphology), sequence data available, holotype of the type species HAC, HACCM 206.

Linocarpon Syd. & P. Syd. 1917 (= *Micronectriopsis* Höhn. 1918 *fide* Species Fungorum 2017), *Xylariales* genera *incertae sedis*, Sordariomycetes, 42 species, type: *L. pandani* Syd. & P. Syd., asexual morph phialophora-like, saprobes, pathogen, endophytes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures available for type: HKUM16278, HKUM16279.

Linochora Höhn. 1910 (= *Xanthopsora* Speg. 1922 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, five species, type: *L. leptospermi* Höhn., coelomycetous, sexual morph unknown, from living leaves, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type species unknown.

Linochorella Syd. & P. Syd. 1912, *Ascomycota* genera *incertae sedis*, one species, type: *L. striiformis* Syd. & P. Syd., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, South Africa, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Linodochium Höhn. 1909, *Ascomycota* genera *incertae sedis*, two species, type: *L. hyalinum* (Lib.) Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology, accepted as a genus in *Helotiaceae*), Wijayawardene et al. (2017; outline), Kirk et al. (2013; did not list), cultures and sequences are unavailable, .

Linopeltis I. Hino & Katum. 1961 (= *Linopeltis* I. Hino & Katum. 1960 *fide* Species Fungorum 2017), *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *L. ryukyuensis* I. Hino & Katum., asexual morph unknown, saprobes, terrestrial, Hawaii, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013, accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lipomyces Lodder & Kreger-van Rij 1952 (= *Myxozyma* van der Walt, Weijman & von Arx 1981; see Species Fungorum 2017 for additional synonyms), *Lipomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 20 species, type: *L. starkeyi* Lodder & Kreger, asexual reproduction is by multilateral budding, saprophytic, predominantly from soil, but not uncommon in tree frass from bark beetles, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Yamazaki and Kawasaki (2014; new species, DNA), sequences are available.

Lirellodisca Aptroot 1998, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *L. pyrenulispora* Aptroot, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are unavailable, holotype of the type species CBS, Aptroot 38022.

Lirula Darker 1967, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, three species, type: *L. nervisequa* (DC.) Darker, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Lantz et al. (2011; DNA, phylogeny), Fan et al. (2012b; new species, China, DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Listeromyces Penz. & Sacc. 1901 (= *Cylomyces* Clem. 1931 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *L. insignis* Penz. & Sacc., hyphomycetous, sexual morph unknown, saprobes, lignicolous, Asia, Oceania, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lithoglypha Brusse 1988, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, one species, type:

L. aggregata Brusse, lichenized, South Africa, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Lithographa Nyl. 1857 (= *Haplographa* Anzi 1860; = *Lithographomyces* Cif. & Tomas. 1953; = *Mycoplacographa* Reinke 1895; = *Placographa* Th. Fr. 1860 *fide* Species Fungorum 2017), *Xylographaceae*, *Trapeliales*, *Lecanoromycetes*, ten species, type: *L. petraea* (Nyl.) Nyl., lichenized, North and South America, Australia, see Resl et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Lithogyalideopsis Lücking, Sérus. & Vězda 2005, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *L. poeltii* (Vězda) Lücking, Sérus. & Vězda, lichenized, see Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Lithophila Selbmann & Isola. For diagnosis see Fungal Diversity 76: 88 (2016). *Trichomeriaceae*, *Chaetothyriales*, *Eurotiomycetes*, rock-inhabiting fungus, monospecific; sexual morph unknown; type: *L. guttulata* Selbmann & Isola. For diagnosis see Fungal Diversity 76: 90 (2016). Holotype: CBS 139723. From marble stone, Cortile della Pigna (Vatican City State); =CCFEE 5907 (NCBI accession numbers: KP791773 (ITS), KR781061 (LSU)), taxonomic species delimitation supported by molecular data. *Lithophila* Selbmann & Isola (2016), introduced as a genus of Trichomeriaceae, is a later homonym of *Lithophila* Sw., Prodr, 14, 1788, a name previously and validly published for a genus of Amaranthaceae.

Notes: *Lithophila* Selbmann & Isola is illegitimate and unavailable for use [ICN (Melbourne) Art. 53.1]; it is here renamed ***Lithohypha*** Selbmann & Isola **nom. nov.**, MB819853. For diagnosis see Fungal Diversity 76: 88 (2016). The type species is here renamed ***Lithohypha guttulata*** (Selbmann & Isola) Selbmann & Isola **comb. nov.**, MB819854 basionym: *Lithophila guttulata* Selbmann & Isola, Fungal Diversity 76: 90 (2015).

Lithopythium Bornet & Flahault 1891, *Ascomycota* genera *incertae sedis*, three species, type: *L. gangliiforme* Bornet & Flahault, asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lithothelium Müll. Arg. 1885 (= *Plagiocarpa* R.C. Harris 1973; = *Pleurotrema* Müll. Arg. 1885; = *Pleurotrematomyces* Cif. & Tomas. 1957; = *Trichotrema* Clem. 1909 *fide* Species Fungorum 2017), *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, eight species, type: *L. cubanum* Müll. Arg., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Valadbeigi and Sipman (2010; Iran), Weerakoon et al. (2012a; DNA, phylogeny), Kirk et al. (2013; genus accepted), Gueidan et al. (2016; phylogeny), cultures and sequences are available but lacking for the type species.

Livia Velen. 1947, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *L. aurea* Velen., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lizonia (Ces. & De Not.) De Not. 1863 (= *Cucurbitaria* subgen. *Lizonia* Ces. & De Not. 1863; = *Pseudolizonia* Pirotta 1889 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *L. empirigonia* (Auersw.) De Not., asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; DNA), Hyde et al. (2013; accepted in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, type specimen of type species CBS H-14093.

Llimonaea Egea & Torrente 1991, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *L. occulta* Egea & Torrente, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Arthoniales*), Ertz and Tehler (2011; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available, holotype of type: MUB 13619.

Llimoniella Hafellner & Nav.-Ros. 1993, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *L. scabridula* (Müll. Arg.) Nav.-Ros. & Hafellner, asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Suija et al. (2015b; phylogeny), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Lobaria (Schreb.) Hoffm. 1796 (= *Lichen* sect. Lobaria Schreb. 1791; = *Lobariomyces* E.A. Thomas 1939; = *Pulmonaria* Hoffm. 1789 [1790]; = *Reticularia* Baumg. 1790; = *Ricasoliomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Stictomyces* E.A. Thomas ex Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, 60 species, type: *L. pulmonaria* (L.) Hoffm., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Moncada et al. (2013a; classification), Miądlikowska et al. (2014a; phylogeny), Cornejo and Scheidegger (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Lobariella Yoshim. 2002, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, 35 species, type: *L. crenulata* (Hook.) Yoshim., lichenized, neo- tropical distribution, see

Lumbsch and Huhndorf (2010; outline, accepted as a synonym of *Lobaria*), Moncada et al. (2013a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Lobarina Nyl. ex Cromb. 1894, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, 15 species, type: *L. scrobiculata* (Scop.) P. Gaertn., lichenized, Northern Hemisphere and in oceanic areas of Africa, Australia, New Zealand and South America, see Moncada et al. (2013a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Lobatopedis P.M. Kirk 1979, *Ascomycota* genera *incertae sedis*, five species, type: *L. foliicola* P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, on leaf litter, widespread, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Heredia et al. (2014; new species), cultures and sequences are unavailable, holotype of type species IMI 222919.

Lobothallia (Clauzade & Cl. Roux) Hafellner 1991 (= *Aspicilia* subgen. *Lobothallia* Clauzade & Cl. Roux 1984; = *Protoplacodium* Motyka 1995 *fide* Species Fungorum 2017), *Megasporaceae*, *Pertusariales*, *Lecanoromycetes*, nine species, type: *L. alphoplaca* (Wahlenb.) Hafellner, lichenized, Asia, Europe, North America, see Lücking et al. (2017a; classification), cultures and sequences are available.

Lockerbia K. D. Hyde 1994, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *L. palmicola* K.D. Hyde, asexual morph unknown, freshwater, Australia, Florida, see Raja and Shearer (2008; new species), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: BRIP 21334.

Loculistroma F. Patt. & Charles 1910, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *L. bambusae* F. Patt., Charles & Veihmeyer, asexual morph hyphomycetous, terrestrial, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: BPI 632466.

Loculohypoxylon M.E. Barr 1976, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. grandineum* (Berk. & Ravenel) M.E. Barr, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Teichosporaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Loculotuber Trappe, Parladé & I.F. Alvarez 1993 (see Species Fungorum 2017 for synonyms), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *L. gennadii* (Chatin) Trappe, Parladé & I.F. Alvarez, asexual morph unknown, saprobes, hypogeous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lodderomyces van der Walt 1971, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, c. two species, type: *L. elongisporus* (Recca & Mrak) van der Walt, asexual reproduction is by multilateral budding, saprophytic, but some species are common human and animal pathogens, clinical isolates, soil, plant debris, beetles, water, yeast cake, worldwide, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Loekoesia S.Y. Kondr., S.O. Oh & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *L. austrocoreana* (S.Y. Kondr., L. Lőkös & J.S. Hur) S.Y. Kondr., J. Kim, A.S. Kondr., S.O. Oh & J.S. Hur, lichenized, South Korea, see Kondratyuk et al. (2015d; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species KoLRI 015504.

Loflammia Vězda 1986, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *L. flammea* (Müll. Arg.) Vězda, lichenized, Australia, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Loflammiopsis Lücking & Kalb 2000, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *L. brasiliensis* Lücking & Kalb, lichenized, Brazil, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type species Kalb, Kalb & Kalb 27140.

Logilvia Vězda 1986, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *L. gilva* (Müll. Arg.) Vězda, lichenized, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Lohwagia Petr. 1942, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, three species, type: *L. intermedia* (Speg.) Petr., asexual morph unknown, from living leaves, terrestrial, central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Lojkania Rehm 1905 (= *Sydowina* Petr. 1923 *fide* Species Fungorum 2017), *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, ten species, type: *L. hungarica* Rehm, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Fenestellaceae*), Kirk et al.

(2013; genus accepted), Wijayawardene et al. (2014c; outline), Phookamsak and Hyde (2015; taxonomy, placed in *Testudinaceae*), cultures and sequences are available but lacking for the type species.

Lolia Abdel-Aziz & Abdel-Wahab 2011, *Lindgomycetaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *L. aquatica* Abdel-Aziz & Abdel-Wahab, coelomycetous, saprobes, aquatic, Egypt, see Abdel-Aziz and Abdel-Wahab (2010; taxonomy, phylogeny), Hyde et al. (2013; accepted in *Lindgomycetaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2012, 2014c; outline), Abdel-Aziz (2016a; new species, phylogeny), cultures and sequences are available, holotype and ex-type of the type species IMI 398675, MF644.

Loliomyces Maire 1937, *Ascomycota* genera *incertae sedis*, one species, type: *L. temulenti* Maire, hyphomycetous, saprobes, Morocco, see Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lollipopaia Inderb. 2001, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *L. minuta* Inderb., asexual morph unknown, saprobes, terrestrial, Thailand, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Lomaantha Subram. 1954, *Ascomycota* genera *incertae sedis*, three species, type: *L. pooga* Subram., hyphomycetous, sexual morph unknown, saprobes, dead wood and culms, India and China, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Ma et al. (2011c; new species, revision), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lomachashaka Subram. 1956, *Ascomycota* genera *incertae sedis*, one species, type: *L. kera* Subram., hyphomycetous, saprobes, Western Africa, India, see Yadav and Bhat (2009b; new species, India), Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Longicollum Zelski, F.R. Barbosa, Raja, A.N. Mill. & Shearer 2011, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *L. biappendiculatum* Zelski, F.R. Barbosa, Raja, A.N. Mill. & Shearer, asexual morph unknown, saprobes, aquatic, USA, South America, see Zelski et al. (2011a; taxonomy), cultures and sequences are unavailable, holotype of the type: ILL 40794.

Longiostiolum Doilom, Ariyaw. & K.D. Hyde 2016, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. tectonae* Doilom, Ariyaw. & K.D. Hyde, saprobes, terrestrial, Thailand, see Li et al. (2016a; taxonomy, phylogeny), cultures and sequences are available, ex-type strains of type: MFLUCC 12–0562, MKT 078, ICMP 21259, holotype of type species MFLU 15–3532.

Longipedicellata H. Zhang, K.D. Hyde & J.K. Liu 2016, *Longipedicellataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. aptrootii* (K.D. Hyde & S.W. Wong) H. Zhang, K.D. Hyde & J.K. Liu, asexual morph hyphomycetous, saprobes, Asia, see Zhang et al. (2016a; taxonomy, phylogeny), Phukhamsakda et al. (2016b; evolution), cultures and sequences are available.

Lopadium Körb. [nom. cons.] 1855 (= *Heterothecium* Mont. 1852; = *Lopadiomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Lopadiaceae*, *Lecideales*, *Lecanoromycetes*, five species, type: *L. pezizoideum* (Ach.) Körb., lichenized, worldwide, see Ekman et al. (2008; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Lopadostoma (Nitschke) Traverso 1906 (= *Anthostoma* subgen. *Lopadostoma* Nitschke 1867 *fide* Species Fungorum 2017), *Lopadostomataceae*, *Xylariales*, *Sordariomycetes*, twelve species, type: *L. turgidum* (Pers.) Traverso, asexual morph libertella-like, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2014a), Senanayake et al. (2015), Maharachchikumbura et al. (2015b, 2016b; outline), Daranagama et al. (2016c; morphology, phylogeny), cultures and sequence are available but lacking for the type species.

Lopezaria Kalb & Hafellner 1990, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *L. versicolor* (Fée) Kalb & Hafellner, asexual morph unknown, lichenized, Morocco, see Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for type species AFTOL-ID 108.

Lophiella Sacc. 1878, *Dothideomycetes* genera *incertae sedis*, one species, type: *L. cristata* (Pers.) Sacc., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lophiostomataceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, Index Fungorum (2016) treated type species as a synonym of *Lophiostoma angustilabrum* (Berk. & Broome) Cooke, holotype of type material unavailable.

Lophiohelichrysum Dayarathne, Camporesi & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *L. helichrysi* Dayarathne, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 15-0175, MFLUCC 15-0701.

Lophionema Sacc. 1883, *Dothideomycetes* genera *incertae sedis*, nine species, type: *L. vermisporum* (Ellis) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lophiostomataceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lophiopoacea Ariyaw., Thambug., Camporesi & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *L. arundinis* Ariyaw., Thambugala, Camporesi & K.D. Hyde, asexual morph unknown, saprobes on *Poaceae*, terrestrial, Italy, Japan, see Thambugala et al. (2015b; morphology, phylogeny), cultures and sequenced are available, holotype and ex-type of type species MFLU 14–0590, MFLUCC 11–0463.

Lophiosphaerella Hara 1948, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *L. euryae* (Syd.) Hara, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Li et al. (2014b; transferred to *Mycosphaerellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Lophiostoma Ces. & De Not. 1863 (see Species Fungorum 2017 for synonyms), *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, c. 100 species, type: *L. macrostomum* (Tode) Ces. & De Not., asexual morph coelomycetous, only known for *L. semiliberum*, saprobes, terrestrial, aquatic, worldwide, sequence data available for four species, see Lumbsch and Huhndorf (2010; outline), Hirayama and Tanaka (2011; phylogeny), Hyde et al. (2013; outline), Kirk et al. (2013; genus accepted), Hirayama et al. (2014; new species), Wijayawardene et al. (2014c; outline), Thambugala et al. (2015b; phylogeny, review), cultures and sequences are available, epitype of the type: IFRD 2005.

Lophiotrema Sacc. 1878, *Lophiotremataceae*, *Pleosporales*, *Dothideomycetes*, 15 species, type: *L. nucula* (Fr.) Sacc., asexual morph coelomycetous, saprobes, terrestrial habitats, worldwide, see Hirayama and Tanaka (2011; taxonomy, phylogeny), Zhang et al. (2012e; taxonomy, phylogeny), Hyde et al. (2013, 2016; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Tibpromma et al. (2017b; new species), cultures and sequences are available, holotype of type: Scler. suec. n. 230.

Lophium Fr. 1818 (= *Lophidium* P. Karst 1873; = *Scolecostroma* Bat. & Peres 1960 *fide* Species Fungorum 2017), *Mytilinidiaceae*, *Mytilinidiales*, *Dothideomycetes*, five species, type: *L. mytilinum* (Pers.) Fr., asexual morph papulaspora-like, saprobes, terrestrial, Europe, America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mytilinidiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Hernández-Restrepo et al. (2016a; new species), cultures and sequences are available.

Lophodermella Höhn. 1917, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, nine species, type: *L. sulcigena* (Link) Höhn. asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Lophodermium Chevall. 1826 (= *Lophomerum* Quell. & Magasi 1966 *fide* Jaklitsch et al. 2016a; see Species Fungorum 2017 for additional synonyms), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, c. 145 species, type: *L. arundinaceum* (Schrad.) Chevall., asexual morph unknown, pathogens, saprobes, endophytes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Lophophacidium Lagerb. 1949 (= *Neonaumovia* Schwarzman 1959 *fide* Species Fungorum 2017), *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, five species, type: *L. hyperboreum* Lagerb., asexual morph unknown, pathogens, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lafalmme et al. (2015; pathogens, phylogeny), cultures and sequences are available but lacking for the type species.

Lophotrichus R.K. Benj. 1949, *Microascaceae*, *Microascales*, *Sordariomycetes*, one species, type: *L. ampullus* R.K. Benj., asexual morph hyphomycetous (humicola-like), saprobes, human pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Eghrari et al. (2015; human pathogens, DNA), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, available specimen and cultures for the type: CBS H-14124, UAMH 11809.

Loramyces W. Weston 1929, *Loramycetaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *L. juncicola* W. Weston, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; phylogeny), Tanney et al. (2016; DNA, phylogeny), cultures and sequences are available.

Loranitschkia Lar. N. Vassiljeva 1990, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *L. viticola* Lar. N. Vassiljeva, asexual morph unknown, saprobes, terrestrial, Asia, see Vasilyeva et al. (2009, 2010, 2013; taxonomy, distribution), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus

accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of the type: VLA, Vasilyeva.

Loratospora Kohlm. & Volkm. 1993, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *L. aestuarii* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, terrestrial, USA, Italy, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; revision), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015a; phylogeny), cultures and sequences are available, holotype and cultures available for the type: IMS J.K. 5505, JK 5535B.

Loricella Velen. 1934, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *L. juncina* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Lotinia Pérez-Butrón, Fern.-Vic. & P. Alvarado 2015, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *L. verna* Pérez-Butrón, Fern.-Vic. & P. Alvarado, asexual morph unknown, saprobes, Spain, see Crous et al. (2015e; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Loxospora A. Massal. 1852, *Sarrameanaceae*, *Sarrameanales*, *Lecanoromycetes*, 13 species, type: *L. elatina* (Ach.) A. Massal., lichenized, Australia, Asia, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Loxosporopsis Henssen 1995, *Pertusariaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *L. corallifera* Brodo, Henssen & Imshaug, asexual morph unknown, lichenized, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Resl et al. (2015; DNA, phylogeny), cultures and sequences are available, holotype of type: herb. Henssen, Henssen 13604; isotypes CANL, FH, GZU, UPS, US.

Lucidascocarpa A. Ferrer, Raja & Shearer 2008, *Dothideomycetes* genera *incertae sedis*, one species, type: *L. pulchella* A. Ferrer, Raja & Shearer, asexual morph unknown, submerged wood from freshwater, Panama, Ecuador, see Ferrer et al. (2008; genus proposed), Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: ILL 40558 (AF178-2).

Luciotrichus R. Galán & Raitv. 1995, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *L. lasioboloides* R. Galán & Raitv., asexual morph unknown, saprobes, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: RG [sic] 6808.

Ludwigomyces Kirschst. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *L. parasiticus* Kirschst., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lueckingia Aptroot & Umaña 2006, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *L. polyspora* Aptroot & Umaña, asexual morph unknown, lichenized, terrestrial, tropical, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type species INB, Aptroot 60206.

Lulwoana Kohlm., Volkm.-Kohlm., J. Campb., Spatafora & Gräfenhan 2005, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *L. uniseptata* (Nakagiri) Kohlm., Volkm.-Kohlm., J. Campb., Spatafora & Gräfenhan, asexual morph unknown, endophytic, saprobes, marine, Japan, see Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; outline of marine genera), Maharachchikumbura et al. (2015b, 2016b; outline), Panzer et al. (2015; DNA, distribution), Torta et al. (2015; endophytes, DNA), cultures and sequences are available.

Lulwoidea Kohlm., Volkm.-Kohlm., J. Campbell, Spatafora & Gräfenhan 2005, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *L. lignoarenaria* (Jørg. Koch & E. B. G. Jones) Kohlm., Volkm.-Kohlm., J. Campb., Spatafora & Gräfenhan, asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: Herb. J. Koch 398, slides 1–5 (CP) cultures and sequences available.

Lulworthia G.K. Sutherl. 1915 (= *Halophiobolus* Linder 1944 *fide* Species Fungorum 2017), *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, eleven species, type: *L. fucicola* G.K. Sutherl., asexual morph hyphomycetous, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), ex-neotype of type: ATCC 64288.

Lunatiannulus Daranag., Camporesi & K.D. Hyde 2015, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *L. irregularis* Daranag., Camporesi & K.D. Hyde, asexual morph libertella-like, saprobes, terrestrial, Italy, Europe, see Daranagama et al. (2015a; morphology, phylogeny), Maharachchikumbura et al. (2016b; morphology, phylogeny), holotype and ex-type strains of type species MFLU 14-0236, MFLUCC 14–0014.

Lunulospora Ingold 1942, *Sordariales* genera *incertae sedis*, two species, type: *L. curvula* Ingold, hyphomycetous, sexual morph unknown, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Luteocirrhus C.F. Crane, B.L. Shearer & T.I. Burgess 2013, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *L. shearii* C.F. Crane, B.L. Shearer & T.I. Burgess, coelomycetous, sexual morph unknown, pathogens, terrestrial, Australia, see Crane and Burgess (2013; taxonomy, phylogeny), Norphanphoun et al. (2016; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and the ex-type cultures of the type species PERTH 08439362, CBS 130776 = WAC 13425.

Luttrellia Shearer 1978, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, four species, type: *L. estuarina* Shearer, asexual morph unknown, saprobes, marine, fresh water, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Luzfridiella R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *L. insignis* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Lylea Morgan-Jones 1975, *Ascomycota* genera *incertae sedis*, six species, type: *L. catenulata* Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, Europe, see Karandikar and Singh (2010; new species, India), McKenzie (2009; new species, New Zealand), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Xia et al. (2014a, b; new species, China), cultures and sequences are unavailable.

Lyromma Bat. & H. Maia 1965 (= *Anconomyces* Cavalc. & A.A. Silva 1972; = *Lyrommotheca* Bat. & T. Herrera 1967 *fide* Species Fungorum 2017), *Lyrommataceae*, *Chaetothyriales*, *Eurotiomycetes*, seven species, type: *L. nectandrae* Bat. & H. Maia, coelomycetous, sexual morph unknown, lichenicolous, lichenized, worldwide, see Lücking (2008; new species, taxonomy), Wijayawardene et al. (2012; outline, accepted as *Pyrenulales*), Kirk et al. (2013; genus accepted), Flakus and Farkas (2013; new species, Bolivia), Farkas and Flakus (2015; South Africa), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Lysotheca Cif. 1962, *Ascomycota* genera *incertae sedis*, six species, type: *L. suprastromatica* Cif., coelomycetous, sexual morph unknown, saprobes, Dominican Republic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Maasoglossum K.S. Thind & R. Sharma 1985, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, one species, type: *M. verrucisporum* K.S. Thind & R. Sharma, asexual morph unknown, saprobes, terrestrial, Asia, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as *Leotiomycetes*), Kirk et al. (2013; genus accepted), Hustad and Miller (2015; revision, phylogeny), cultures and sequences are available, cultures available for the type: CUP-IN-000606.

Macgarvieomyces Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, two species, type: *M. borealis* (de Hoog & Oorschot) Klaubauf, Lebrun & Crous, hyphomycetous, pathogens, terrestrial, UK, Netherlands, see Klaubauf et al. (2014; phylogeny, morphology, asexual morph), Wijayawardene et al. (2017; outline), cultures and sequences available, ex-type strain of type species CBS 461.65.

Mackenziella Yanna & K.D. Hyde 2009 (= *Mackenziea* Yanna & K.D. Hyde 2002 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *M. livistonae* (Yanna & K.D. Hyde) Yanna & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Gams et al. (2009; nomenclature), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: HKU (M) 13304.

Macowaniella Doidge 1921, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. congesta* (G. Winter) Doidge, epiphytes, terrestrial, see Hofmann (2009; review, accepted in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, treated as a doubtful genus in *Asterinales*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are unavailable.

Macroallantina Speer 1987, *Ascomycota* genera *incertae sedis*, one species, type: *M. caespitosa* Petr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Macroconia (Wollenw.) Gräfenhan, Seifert & Schroers 2011 (= *Nectria* sect. *Macroconia* Wollenw. 1926 *fide* Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *M. leptosphaeriae* (Niessl) Gräfenhan & Schroers, hyphomycetous, terrestrial,

mostly fungicolous, Northern hemisphere, see Gräfenhan et al. (2011; phylogeny), Lombard et al. (2015b; phylogeny), cultures and sequences are available, lectotype of type: K(M) 165805.

Macroderma Höhn. 1917, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *M. curtisii* (Berk. & Ravenel) Höhn., asexual morph unknown, saprobes, terrestrial, North America, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Macrodiaporthe Petr. 1920 (= *Calospora* Nitschke ex Fuckel 1870 [1869-70] *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *M. occulta* (Fuckel) Petr., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Macrodiplodia Sacc. 1884, *Ascomycota* genera *incertae sedis*, two species, type: *M. curreyi* (Sacc. & Roum.) Sacc., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Macrodiplodiopsis Petr. 1922 (= *Macrodiplis* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Macrodiplodiopsidaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *M. desmazieri* (Mont.) Petr., asexual morph coelomycetous, saprobes, Europe, see Wijayawardene et al. (2012, 2014b, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), Crous et al. (2015a; taxonomy, sexual morph, typification), Tanaka et al. (2015; phylogeny), cultures and sequences are available, lectotype: PC 0142158, epitype and ex-epitype: CBS H-22269, CBS 140062.

Macrographa Etayo 2008, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *M. antarctica* Etayo, asexual morph unknown, terrestrial, parasymbiont, or parasite on *Nephroma antarcticum*, South America, see Etayo and Sancho (2008; morphology), Hyde et al. (2013; accepted as *Trichothyriaceae*, but without molecular data), cultures and sequences are unavailable, holotype of the type species MAF, Etayo 23269.

Macrohilum H.J. Swart 1988, *Macrohilaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *M. eucalypti* H.J. Swart, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2016b; outline, morphology, phylogeny), Crous et al. (2015a; morphology, phylogeny), cultures and sequences are available, epitype and ex-epitype of the type: CBS H-22279, CBS 140063.

Macrophomina Petr. 1923, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, three species, type: *M. phaseolina* (Tassi) Goid., coelomycetous, sexual morph unknown, saprobes, pathogens, in soil, terrestrial, cosmopolitan, see Phillips et al. (2008, 2013; taxonomy, phylogeny), Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, taxonomy, phylogeny), Dissanayake et al. (2016b; taxonomy), cultures and sequences are available.

Macrorhabdus Tomaszewski, Logan, Snowden, Kurtzman & Phalen 2003, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, one species, type: *M. ornithogaster* Tomasz., asexual reproduction is by fission, typically infects the stomach area of budgerigars (*Melopsittacus undulates*) and other birds causing a wasting disease, on Budgerigars and other birds, worldwide, sequences are available.

Macroskyttea Etayo, Flakus, Suija & Kukwa 2015, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, one species, type species: *M. parmotrematis* Etayo, Flakus & Kukwa, asexual morph unknown, lichenicolous, terrestrial, Bolivia, see Etayo et al. (2015; DNA, description), DNA sequences available, cultures unavailable, holotype of type species in UGDA.

Macrovalsaria Petr. 1962, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. leonensis* (Deighton) Petr., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Botryosphaeriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted in *Botryosphaeriaceae*), Doilom et al. (2017; DNA, phylogeny), cultures and sequences are available but lacking for the type species.

Macroventuria Aa 1971, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *M. anomochaeta* Aa, asexual morph unknown, saprobes, ?pathogens, terrestrial, cosmopolitan, see Aveskamp et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Chen et al. (2015b; taxonomy, phylogeny), cultures and sequences are available.

Maculatifrondes K.D. Hyde 1996, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *M. aequatoriensis* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline),

cultures and sequences are unavailable, holotype of type: BRIP 23240.

Maculatipalma J. Fröhl. & K.D. Hyde 1995, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *M. frondicola* J. Fröhl. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: BRIP 21402.

Madurella Brumpt 1905 (= *Indiella* Brumpt 1906; = *Rubromadurella* Talice 1935 *fide* Species Fungorum 2017), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, nine species, type: *M. mycetomatis* (Laveran) Brumpt, hyphomycetous, sexual morph unknown, saprobes, human (causal agent of black-grain mycetoma) and animal pathogens, worldwide, see Fahala et al. (2010; pathogen, treatments), Seifert et al. (2011; morphology), de Hoog et al. (2012, 2013; new species, Sudan, Sumatera), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Irinyi et al. (2015; barcode), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, cultures available for the type species CBS 247.48.

Magmopsis Nyl. 1875 (see Species Fungorum 2017 for synonyms), *Arthopyreniaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. pertenella* Nyl., lichenized, see Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Magnaporthiopsis J. Luo & N. Zhang 2013, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, six species, type: *M. poae* (Landsch. & N. Jacks.) J. Luo & N. Zhang, asexual morph hyphomycetous, pathogens, terrestrial, worldwide, see Luo and Zhang (2013; taxonomy, phylogeny), Klaubauf et al. (2014; new species, phylogeny), Luo et al. (2014; new species, phylogeny), Crous et al. (2015e; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Khemmuk et al. (2016; phylogeny), holotype and cultures available for the type species DAR 59044, M47.

Magnibotryascoma Thambug. & K.D. Hyde 2015, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. uniseriatum* (Mugambi, A.N. Mill. & Huhndorf) Thambug. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, USA, see Thambugala et al. (2015b; phylogeny), Liu et al. (2017, phylogeny, placement), cultures and sequences are available, holotype of type species ANM 909.

Magnicamarosporium Kaz. Tanaka & K. Hiray. 2015, *Sulcatisporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type species: *M. iriomotense* Kaz. Tanaka & K. Hiray., coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Tanaka et al. (2015; morphology, phylogeny), Wijayawardene et al. (2016b, 2017; morphology, phylogeny, outline), Phukhamsakda et al. (2017; new species, phylogeny), cultures and sequences are available, holotype and ex-type: HHUF 30125, CBS 139696.

Magnisphaera J. Campb., J.L. Anderson & Shearer 2003 (= *Matsusphaeria* K.L. Pang & E.B.G. Jones *fide* Maharachchikumbura et al. 2015b, 2016b), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *M. spartinae* (E.B.G. Jones) J. Campb., J.L. Anderson & Shearer, asexual morph unknown, saprobes, marine, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Réblová et al. (2017; DNA, phylogeny), cultures and sequences are available.

Magnohelicospora R.F. Castañeda, Hern.-Restr., Gené & Guarro 2013, Venturiaceae, *Venturiales*, *Dothideomycetes*, two species, type: *M. iberica* R.F. Castañeda, Hern.-Restr., Gené & Guarro, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Portugal, see Castañeda-Ruiz et al. (2013c; taxonomy), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype of the type: HAL (Fungi) 2447, cultures and sequences are unavailable.

Magnusiomyces Zender 1977 (= *Saprochaete* Coker & Shanor ex D.T.S. Wagner & Dawes 1970; see Index Fungorum 2017 for additional synonyms), *Dipodascaceae*, *Saccharomycetales*, *Saccharomycetes*, eight species, type: *M. ludwigii* Zender, asexual reproduction consists of true hyphae that branch at acute angles with acuminate apices, and that disarticulate into arthroconidia, saprophytic, but clinical isolates are not uncommon, soil, tree fluxes, waste water, insect tunnels in trees, worldwide, cultures and sequences are available.

Mahabalella B. Sutton & S.D. Patil 1966, *Ascomycota* genera *incertae sedis*, two species, type: *M. acutisetosa* B. Sutton & S.D. Patil, hyphomycetous, with acremonium-like synasexual morph, sexual morph unknown, saprobes, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Maheshwaramyces Hosag. 2009, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. pachygones* Hosag., Archana & Dan, asexual morph unknown, living on leaves, India, see Hosagoudar et al. (2009; taxonomy), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Maireella Syd. ex Maire 1908, *Dothideomycetes* genera *incertae sedis*, type: *M. maculans* Syd. ex Maire, data inadequate, see Kirk et al. (2008; treated as a synonym of

Gibbera), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Majewskia Y.B. Lee & K. Sugiy. 1986, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *M. japonica* Y.B. Lee & K. Sugiy., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Malacaria Syd. 1930, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. meliolicola* Syd., asexual morph unknown, saprobes, pantropical, see Lumbsch and Huhndorf (2010; outline, accepted in *Tubeufiaceae*), Hyde et al. (2013; not accepted in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; not listed in *Tubeufiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Malaysiasca Crous & M.J. Wingf. 2016, *Glomerellales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *M. phaii* Crous & M.J. Wingf., asexual morph coelomycetous, saprobes, terrestrial, Malaysia, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type: CBS H-22616, CPC 27548.

Malbranchea Sacc. 1882 (= *Thermoidium* Miehe 1907 *fide* Species Fungorum 2017), *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, 22 species, type: *M. pulchella* Sacc. & Penz., hyphomycetous, sexual morph unknown, in soil, dung, keratin, cellulose, man and other substrata, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Malcolmiella Vězda 1997, *Teloschistales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *M. cinereovirens* Vězda, lichenized, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available, holotype of type: CHR (2757).

Mallochia Arx & Samson 1986, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, four species, type: *M. echinulata* (B.G. Dutta & G.R. Ghosh) Arx & Samson, asexual morph unknown, saprobes, palaeotropical, see Lumbsch and Huhndorf (2010; outline, accepted in *Onygenaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, available specimen for type: CBS H-6703.

Malmeomyces Starbäck 1899, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. pulchellus* Starbäck, asexual morph unknown, terrestrial, saprobes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Malmidea Kalb, Rivas Plata & Lumbsch 2011, *Malmideaceae*, *Lecanorales*, *Lecanoromycetes*, 50 species, type: *M. piperis* (Spreng.) Kalb, Rivas Plata & Lumbsch, ascomata apotheciate, conidiomata pycnidial, lichen-forming, mostly on bark, pantropical, see Kalb et al. (2012; phylogeny), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Malmographina M. Cáceres, Rivas Plata & Lücking 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *M. plicosa* (C.F.W. Meissn.) M. Cáceres, Rivas Plata & Lücking, asexual morph unknown, lichenized, terrestrial, pantropical, see Cáceres et al. (2012a; taxonomy), Lumbsch et al. (2014a, b; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Malthomyces K.D. Hyde & P.F. Cannon 1999, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *M. calamigena* (Berk. & Broome) K.D. Hyde & P.F. Cannon, asexual morph unknown, saprobes, terrestrial, India, Sri Lanka, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Mamiania Ces. & De Not. 1863 (= *Kubinyia* Schulzer 1866 *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *M. fimbriata* (Pers.) Ces. & De Not., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Mamianiella Höhn. 1917, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, three species, type: *M. coryli* (Batsch) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Sogonov et al. (2008; accepted as *Diaporthales*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Gnomoniaceae*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as *Diaporthales*), cultures and sequences are available, available specimen and cultures for the type: CBS H-14211, BPI 877578.

Mamillisphaeria K.D. Hyde, S.W. Wong & E.B.G. Jones 1996, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. dimorphospora* K.D. Hyde, S.W. Wong & E.B.G. Jones, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and

Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Melanommataceae*), Wijayawardene et al. (2014c; outline), Tian et al. (2015; accepted as a genus in *Melanommataceae*), holotype of the type: BRIP 22967, cultures and sequences are unavailable.

Mammaria Ces. ex Rabenh. 1854 (= *Pseudocercophora* Subram. & Sekar 1986 *fide* Réblová et al. 2016c), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *M. echinobotryoides* Ces., sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, available specimen for type: CBS H-14212.

Manglicola Kohlm. & E. Kohlm. 1971, *Manglicolaceae*, *Jahnulales*, *Dothideomycetes*, two species, type: *M. guatemalensis* Kohlm. & E. Kohlm., asexual morph unknown, saprobes, marine, Brunei, Guatemala, Thailand, see Jones et al. (2009b, 2015; classification), Suetrong et al. (2010, 2011a; morphology, phylogeny), Jones et al. (2012; morphology, phylogeny), Hyde et al. (2013; morphology, phylogeny), Shearer et al. (2014; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available, holotype and ex-isotype strain of type species J.K. Nos. 2700 (NY), J.K. 2700a (IMS).

Mangoldia Lücking, Parnmen & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *M. australiana* Lücking, Parnmen & Lumbsch, asexual morph unknown, lichenized, terrestrial, Australia, see Lücking et al. (2012, 2014; taxonomy), Lumbsch et al. (2014a, b; phylogeny), sequences are available, holotype: CANB, Mangold 27zB.

Mangrovispora K.D. Hyde & Nakagiri 1991, *Sordariomycetes* genera *incertae sedis*, two species, type: *M. pemphii* K.D. Hyde & Nakagiri, asexual morph unknown, saprobes, marine, Australia, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; accepted as *Phyllachorales*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available (unpublished), holotype of the type: BRIP 17112.

Manoharachariella Bagyan., N.K. Rao & Kunwar 2009, *Tubeufiaceae*, *Tubeufiales*, *Dothidiomycetes*, four species, type: *M. lignicola* Bagyan., N.K. Rao & Kunwar, sexual morph unknown, saprobes, terrestrial, Asia and Turkey, see Bagyanarayana et al. (2009; established genus), Rajeshkumar and Singh (2012; new species), Selçuk and Ekici (2014; new species), Doilom et al. (2017; new species), cultures and sequences are available for *M. tectonae*, holotype of type: IMI 296857.

Manokwaria K.D. Hyde 1993, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *M. notabilis* K.D. Hyde, asexual morph unknown, saprobes, fresh water, Indonesia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: BRIP 20854.

Mapletonia B. Sutton 1991, *Ascomycota* genera *incertae sedis*, one species, type: *M. falcata* B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type species IMI 263431a.

Marasasiomyces Crous 2015, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *M. karoo* (B. Sutton & Marasas) Crous, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-isotype of the type: PREM 44967, CBS 118718.

Marcelaria Aptroot, Nelsen & Parnmen 2013 (= *Buscalionia* Cengia Sambo 1940), *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, three species, type: *M. purpurina* (Nyl.) Aptroot, Nelsen & Parnmen, asexual morph unknown, lichenized, terrestrial, worldwide, see Aptroot et al. (2013b; taxonomy), Nelsen et al. (2014b; DNA, phylogeny), Luangsuphabool et al. (2016; DNA, phylogeny), Aptroot and Nepi (2017: nomenclature), cultures and sequences are available, holotype and cultures available for the type species 236 (PC), MPN323A (*fide* Nelsen et al. 2014).

Marcelleina Brumm., Korf & Rifai 1967, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *M. persoonii* (P. Crouan & H. Crouan) Brumm., asexual morph unknown, hypogeous, terrestrial, worldwide, see Lantieri and Pfister (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rubio et al. (2011; new species, Spain), cultures and sequences are available, cultures available for type: TL-5696.

Marchantiana S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *M. occidentalis* (Elix, S. Y. Kondr. & Kärnefelt) S.Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, A.S. Kondr. & Hur, asexual morph unknown, lichenized, terrestrial, Australia, see Kondratyuk et al. (2014, 2015b; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available, holotype and available cultures of the type: CANB Elix 32479, SK981 and SK982.

Margaritispora Ingold 1942, *Helotiales* genera *incertae sedis*, one species, type: *M. aquatica* Ingold, hyphomycetous, sexual morph unknown, saprobes,

aquatic, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Mariannaea G. Arnaud ex Samson 1974 (= *Mariannaea* G. Arnaud 1952 *fide* Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *M. elegans* (Corda) Samson, asexual morph hyphomycetous, terrestrial, saprobes and in soil, Asia, see Gräfenhan et al. (2011; phylogeny), Lombard et al. (2015b; phylogeny), cultures and sequences are available, holotype of type species in herb. Corda (as *Penicillium elegans*).

Marielliottia Shoemaker 1999, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *M. biseptata* (Sacc. & Roum.) Shoemaker, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology, accepted AY004786 (DAOM 208987) as the ITS barcode), Wijayawardene et al. (2012, 2014c, 2017; outline), Ariyawansa et al. (2015c; accepted as a genus in *Phaeosphaeriaceae*), cultures and sequences are available.

Marinokulati E.B.G. Jones & K.L. Pang 2014, *Juncigenaceae*, *Torpedosporales*, *Sordariomycetes*, one species, type: *M. chaetosa* (Kohlm.) E.B.G. Jones & K.L. Pang, saprobes, marine, temperate, asexual morph unknown, see Jones et al. (2014, 2015; morphology, phylogeny; outline), cultures and sequences are available.

Marinosphaera K.D. Hyde 1989, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *M. mangrovei* K.D. Hyde, asexual morph unknown, saprobes, marine, terrestrial, Brunei, see Jones et al. (2009b, 2015; phylogeny, outline), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of the type: IMI 325412.

Marinospora A.R. Caval 1966 (= *Ceriosporella* A.R. Caval. 1966 *fide* Species Fungorum 2017), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *M. calyptrata* (Kohlm.) A.R. Caval., asexual morph unknown, saprobes, marine, Argentina, Belgium, Denmark, France, Germany, Scotland, Iceland, Spain, USA, Canada, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), cultures and sequences are available.

Marisolaris Jørgen Koch & E.B.G. Jones 1989, *Sordariomycetes* genera *incertae sedis*, one species, type: *M. ansata* Jørg. Koch & E.B.G. Jones, asexual morph unknown, marine, temperate, on wood associated with sand, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Ascomycota* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), no sequence data.

Maronea A. Massal. 1856 (= *Maroneomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Fuscideaceae*, *Umbilicariales*, *Lecanoromycetes*, 13 species, type: *M. berica* A. Massal., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; phylogeny), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Maronella M. Steiger 1959 (= *Myrioblastus* Trevis. 1857; = *Piccolia* A. Massal. 1856 *fide* Species Fungorum 2017), *Lecanoromycetes* genera *incertae sedis*, one species, type: *M. laricina* M. Steiner, lichenized, temperate northern hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Marthamyces Minter 2003, *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, nine species, type: *M. emarginatus* (Cooke & Massee) Minter, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lantz et al. (2011; DNA, phylogeny), cultures and sequences are available.

Martinellisia V.G. Rao & Varghese 1977, *Ascomycota* genera *incertae sedis*, one species, type: *M. indica* V.G. Rao & Varghese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Martininia Dumont & Korf 1970 (= *Martinia* Whetzel 1942 *fide* Species Fungorum 2017), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *M. panamaensis* Dumont & Korf, asexual morph unknown, saprobes, terrestrial, America, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype and ex-type of the type: CUP 27040, CBS 207.47.

Martiniozyma Kurtzman 2015, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *M. abiesophila* (Kurtzman) Kurtzman, asexual reproduction is by multilateral budding, saprophytic, water, soil, fruit, sap of red fir, worldwide, see Kurtzman (2015; taxonomy), cultures and sequences are available.

Martinjahnsia S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.S. Hur & A. Thell 2012, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, ten species, type: *M. resendei* (Poelt & C. Tav.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.S. Hur & A. Thell, asexual morph unknown, lichenized, terrestrial, worldwide, see

Fedorenko et al. (2012; taxonomy), cultures and sequences are unavailable.

Massalongia Körb. 1855 (= *Massalongomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Massalongiaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *M. carnosa* (Dicks.) Körb., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Massalongina Bubák 1916, *Ascomycota* genera *incertae sedis*, one species, type: *M. aquilina* (C. Massal.) Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Massaria De Not. 1844 (= *Aglaospora* De Not. 1844; = *Bathystomum* Füisting 1868; = *Phaeomassaria* Speg. 1880 *fide* Species Fungorum 2017), *Massariaceae*, *Pleosporales*, *Dothideomycetes*, 31 species, type: *M. inquinans* (Tode) De Not., asexual morph coelomycetous, saprobes or weak parasitic, terrestrial, northern temperate climate zone, see Lumbsch and Huhndorf (2010; outline), Voglmayr and Jaklitsch (2011; taxonomy, phylogeny), Hyde et al. (2013, 2016; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequence data available for 17 species, holotype of type species WU 30526.

Massarina Sacc. 1883 (= *Abaphospora* Corda 1939; = *Bertia* subgen. *Bertiella* Sacc. 1882; = *Massarinula* Géneau 1894; = *Oraniella* Speg. 1909; = *Parasphaeria* Syd. 1924; = *Pseudodiaporthe* Speg. 1909 *fide* Species Fungorum 2017), *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, c. 100 species, type: *M. eburnea* (Tul. & C. Tul.) Sacc., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Zhang et al. (2009a, b; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tanaka et al. (2015; taxonomy, phylogeny), cultures and sequences are available.

Massariola Füisting 1868, *Dothideomycetes* genera *incertae sedis*, two species, type: need typification, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Massariosphaeria (E. Müll.) Crivelli 1983 (= *Leptosphaeria* subgen. *Massariosphaeria* E. Müll. 1950 *fide* Species Fungorum 2017), *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, 25 species, type: *M. phaeospora* (E. Müll.) Crivelli, asexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lophiostomataceae*), Tanaka et al. (2011b; new species, Pakistan), Hyde et al. (2013; excluded from *Lophiostomataceae*) Kirk et al. (2013; genus accepted), Thambugala et al. (2015b; excluded from *Lophiostomataceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Pleosporales*), cultures available for the type: CBS 611.86 (*fide* Schoch et al. 2009).

Massariothea Syd. 1939 (= *Apocoryneum* B. Sutton 1975 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, eight species, type: *M. themedae* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Massariovalsa Sacc. 1882 (= *Melanconiopsis* Ellis & Everh. *fide* Rossman et al. 2015a), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *M. sudans* (Berk. & M.A. Curtis) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable, available specimen for type: CBS H-14272.

Masseea Sacc. 1889, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, ?four species, type: *M. quisquiliarum* (Berk. & M.A. Curtis) Sacc., asexual morph unknown, saprobes, terrestrial, America, Asia see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mastigosporella Höhn. 1914 (= *Wuestneiopsis* J. Reid & Dowsett 1990 *fide* Rossman et al. 2015a), *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *M. hyalina* (Ellis & Everh.) Höhn., asexual morph coelomycetous, pathogens, saprobes, terrestrial, worldwide, see Crous et al. (2013b; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2015a; nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are available but lack for the type.

Mastigosporium Riess 1852 (= *Amastigis* Clem. & Shear 1931; = *Amastigosporium* Bondartsev 1921 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *M. album* Riess, coelomycetous, sexual morph unknown, pathogens, terrestrial, temperate, see Kirk et al. (2013; genus accepted), Crous et al. (2014a; taxonomy, epitypification, phylogeny), cultures and sequences are available but lacking for the type species.

Mastodia Hook.f. & Harv. 1847 (= *Dermatomeris* Reinsch 1890; = *Kohlmeyera* S. Schatz 1980; = *Leptogiopsis* Nyl. 1884 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, five species, type: *M. tessellata* (Hook. f. & Harv.) Hook. f. & Harv., lichenized, Southern hemisphere, especially Antarctica, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Mastodiaceae*), Pérez-Ortega et al. (2010; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Matsushimaea Subram. 1978, *Ascomycota* genera *incertae sedis*, three species, type: *M. fasciculata* (Matsush.) Subram., sexual morph unknown, saprobes, terrestrial, Asia, North America, Africa, see Hyde et al. (2011; checklist), Rambelli (2011; Mediterranean), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Matsushimamyces Rahul Sharma & Rohit Sharma 2015, *Latoruaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. bohaniensis* Rahul Sharma, Rohit Sharma & Crous, hyphomycetous, keratinophilic, from soil, India, see Sharma et al. (2015a; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Matsushimiella R.F. Castañeda & Heredia 2001, *Ascomycota* genera *incertae sedis*, two species, type: *M. queenslandica* (Matsush.) R.F. Castañeda & Heredia, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Monteiro et al. (2015a; new species, Brazil), holotype of type: MFC-8A063, cultures and sequences are unavailable, compare with *Minimelanolocus*, *Nigrolentilocus*, *Pseudospiropes* and *Spiropes*.

Matsushimomyces V.G. Rao & Varghese 1979, *Ascomycota* genera *incertae sedis*, two species, type: *M. indicus* V.G. Rao & Varghese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Matsusporium E.B.G. Jones & K.L. Pang 2010, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *M. tropicale* (Kohlm.) E.B.G. Jones & K.L. Pang, hyphomycetous, sexual morph unknown, saprobes, marine, pantropical, see Abdel-Wahab et al. (2010; phylogeny), cultures and sequences are available, holotype of type: IMI 325412.

Mattirolella S. Colla 1929, *Kathistaceae*, *Ophiostomatales*, *Sordariomycetes*, one species, type: *M. silvestrii* S. Colla, saprobes, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Mattirolia Berl. & Bres. 1889, *Thyridiaceae*, *Sordariomycetes* families *incertae sedis*, one species, type: *M. roseovirens* Berl. & Bres., saprobes, Africa, see Lumbsch and Huhndorf (2010; outline), Checa et al. (2013; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences and cultures are unavailable, epitype of type: WU 32154.

Mattirolomyces E. Fisch. 1938, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *M. terfezioides* (Mattir.) E. Fisch., asexual morph unknown, hypogeous, terrestrial, worldwide, see Trappe et al. (2010b; DNA), Kovács et al. (2011b; DNA, new combination), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Maublancia G. Arnaud 1918 (= *Caudellopeltis* Bat. & H. Maia 1960 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *M. myrtacearum* G. Arnaud, asexual morph unknown, saprobes, terrestrial, South America, South Africa, see Lumbsch and Huhndorf (2010; outline, accepted in *Microthyriaceae*), Wu et al. (2011; excluded from *Microthyriaceae*), Hyde et al. (2013; excluded from *Microthyriaceae*), Wijayawardene et al. (2014c, accepted in *Dothideomycetes*), cultures and sequences are unavailable, available specimen of type: CBS H-14276.

Mauginiella Cavara 1925, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. scaettae* Cavara, asexual morph unknown, saprobes, pathogens, terrestrial, South America, South Africa, see Seifert et al. (2011; morphology), Abdullah et al. (2015; pathogens), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Mauritiana Poonyth, K.D. Hyde, Aptroot & Peerally 2000, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. rhizophorae* Poonyth, K.D. Hyde, Aptroot & Peerally, asexual morph unknown, saprobes, marine, see Alias and Jones (2009; monograph), Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b, 2015; outline, marine), Zainuddin et al. (2010; antimicrobial activities), Lee et al. (2012; checklist, Malaysia), Zhang et al. (2012e; phylogeny, morphology), Hyde et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available, holotype of type: HKU(M) 10219.

Mawsonia C.W. Dodge 1948, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *M. harrissonii* C.W. Dodge, lichenized, Brazil, Antarctica, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Mazaediothecium Aptroot 1991, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, three species, type: *M. rubiginosum* Aptroot, asexual morph unknown, lichenized, terrestrial, Papua New Guinea, Costa Rica, Malaysia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type: Aptroot (17464).

Mazosia A. Massal. 1854, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 27 species, type: *M. rotula* (Mont.) A. Massal., sexual morph with apothecioid ascomata, asexual morph coelomycetous, lichenized, rarely lichenicolous, terrestrial, tropical to subtropical regions, see Lücking (2008a, b, morphology), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ertz et al. (2015b, c; phylogeny), Frisch et al. (2014; phylogeny), Lücking et al. (2017a; classification), sequence data available for a few species.

Mazzantia Mont. 1855 (= *Mazzantiella* Höhn. 1925 *fide* Rossman et al. 2015a), *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *M. galii* (Fr.) Mont., asexual morph coelomycetous, saprobes, terrestrial, Europe, America, see Sogonov et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for the type: AR4658 (*fide* Udayanga et al. 2014a, b).

Mebarria J. Reid & C. Booth 1989, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *M. thujina* (Nag Raj & DiCosmo) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Medeolaria Thaxt. 1922, *Medeolariaceae*, *Medeolariales*, *Leotiomycetes*, one species, type: *M. farlowii* Thaxt., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Medusamyces G.L. Barron & Szijarto 1990, *Ascomycota* genera *incertae sedis*, two species, type: *M. lunulosporus* G.L. Barron & Szijarto, hyphomycetous, sexual morph unknown, on rotifers, aquatic, Canada, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: OAC 10845.

Megacapitula J.L. Chen & Tzean 1993, *Ascomycota* genera *incertae sedis*, two species, type: *M. villosa* J.L. Chen & Tzean, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Prabhugaonkar and Bhat (2011; record in India, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype and cultures available for the type: PPH17, GUFCC 15515.

Megalaria Hafellner 1984, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 29 species, type: *M. grossa* (Pers. ex Nyl.) Hafellner, lichenized, worldwide, see Ekman et al. (2008; Ancestral state reconstructions), Schmull et al. (2011; phylogeny), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Megaloblastenia Sipman 1983, *Megalosporaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *M. flavidoatra* (Nyl.) Sipman, lichenized, Australia, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Megalodochium Deighton 1960, *Ascomycota* genera *incertae sedis*, four species, type: *M. palmicola* Deighton, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, China, India, Sierra Leone (tropical Africa), see Tiwari and Rai (2009; morphology), Wijayawardene et al. (2012, 2017; outline), Zhao and Zhao (2012; morphology), Crous et al. (2015d; compare with *Melanconium*), cultures and sequences are unavailable.

Megalohypha A. Ferrer & Shearer 2007, *Aliquandostipitaceae*, *Jahnulales*, *Dothideomycetes*, one species, type: *M. aqua-dulces* A. Ferrer & Shearer, freshwater, Panama, Thailand, see Lumbsch and Huhndorf (2010; outline), Suetrong et al. (2011a; phylogeny), Hyde et al. (2013; accepted as a genus in *Aliquandostipitaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available, holotype of type: AF005 ILL.

Megaloseptoria Naumov 1925 (see Species Fungorum 2017 for synonyms), *Ascomycota* genera *incertae sedis*, one species, type: *M. mirabilis* Naumov, coelomycetous, sexual morph unknown, saprobes, terrestrial, Russia, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Megalospora Meyen 1843 (= *Bombyliospora* De Not. 1852; = *Bombyliosporomyces* Cif. & Tomas. 1953; = *Byssophragmia* M. Choisy 1931; = *Dumoulinia* Stein 1883; = *Heterothecium* Flot. 1850 *fide* Species Fungorum 2017), *Megalosporaceae*, *Teloschistales*, *Lecanoromycetes*, 35 species, type: *M. sulphurata* Meyen, lichenized, tropical and warm temperate zones, see Lumbsch and Huhndorf (2010; outline), Kantvilas and Lumbsch (2012; phylogeny),

Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Megalotremis Aptroot 1991, *Monoblastiaceae*, *Monoblastiales*, *Dothideomycetes*, twelve species, type: *M. verrucosa* (Makhija & Patw.) Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, India, Costa Rica, Sri Lanka, see Nelsen et al. (2009, 2011a, b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures available for type: MPN104 (*fide* Nelsen et al. 2011a, b).

Megaspora (Clauzade & Cl. Roux) Hafellner & V. Wirth 1987 (= *Aspicilia* subgen. *Megaspora* Clauzade & Cl. Roux 1984 *fide* Species Fungorum 2017), *Megasporaceae*, *Pertusariales*, *Lecanoromycetes*, three species, type: *M. verrucosa* (Ach.) Hafellner & V. Wirth, lichenized, Austria, Iran, Armenia, see Lumbsch and Huhndorf (2010; outline), Valadbeigi et al. (2011a; new species), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Zakeri et al. (2016; new species), cultures and sequences are available.

Meionomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, six species, type: *M. asteni* Thaxt., asexual morph unknown, biotrophic, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Melanamphora Lafl. 1976, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *M. spinifera* (Wallr.) Lafl., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Melanconiella Sacc. 1882, *Melanconiellaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *M. spodiaea* (Tul. & C. Tul.) Sacc., asexual morph discosporina-like and melanconium-like, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Voglmayr et al. (2012; taxonomy, phylogeny, asexual morph, typification), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available, cultures available for type species SPOD1, SPOD, MVS, MSH (*fide* Voglmayr et al. 2012).

Melanconis Tul. & C. Tul. 1863 (= *Melanconium* Link 1809 *fide* Rossman et al. 2015a), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, c. 100 species, type: *M. stilbostoma* (Fr.) Tul. & C. Tul., asexual morph formerly known in *Melanconium*, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Fan et al. (2016b; species associated with *Betula*), Wijayawardene et al. (2016b, 2017; taxonomy of Melanconium, outline), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are available.

Melanelia Essl. 1978, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *M. stygia* (L.) Essl., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Melanelixia O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch 2004, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, eight species, type: *M. glabra* (Schaer.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch (syn. *Parmelia olivacea* f. *glabra* Schaer.), lichenized, widespread, terrestrial, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; position), Lücking et al. (2017a; classification), cultures and sequences are available, lectotype of type species G.

Melanocamarosporium Wijayaw., Camporesi, D.J. Bhat & K.D. Hyde 2016, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. galicola* Wijayaw., Camporesi, D.J. Bhat & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2016b, 2017; taxonomy, phylogeny, outline), holotype and ex-type of the type: MFLU 15–3451, MFLUCC 13–0545.

Melanocarpus Arx 1975, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, three species, type: *M. albomyces* (Cooney & R. Emers.) Arx, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted in *Sordariales*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), van den Brink et al. (2015; thermophilic nature), cultures and sequences are available.

Melanocephala S. Hughes 1979, *Ascomycota* genera *incertae sedis*, five species, type: *M. cupulifera* S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Melanoctona Qing Tian, Doilom & K.D. Hyde 2016, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *M. tectonae* Qing Tian, Doilom & K.D. Hyde, asexual morph hyphomycetous, Thailand, see Tian

et al. (2016b; taxonomy), cultures and squences are available.

Melanodothis R.H. Arnold 1972 (= *Hyalodothis* Pat. & Har. 1893 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *M. caricis* R.H. Arnold, asexual morph ramularia-like, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Melanographa Müll. Arg. 1882 (= *Mycomelaspilea* Reinke 1895 *fide* Ertz and Diederich 2015), *Asterinales* genera *incertae sedis*, *Dothideomycetes*, type: *M. tribuloides* (Tuck.) Müll. Arg., lichenicolous, cosmopolitan, see Ertz and Diederich (2015; taxonomy, phylogeny), sequences are available.

Melanographium Sacc. 1913 (= *Pseudocamptoum* Gonz. Frag. & Cif. 1925; = *Sporostachys* Sacc. 1919 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, nine species, type: *M. spleniosporum* Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Melanohalea O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch 2004, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 19 species, type: *M. exasperata* (De Not.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch (syn. *Parmelia exasperata* De Not.), lichenized, widespread, terrestrial, see Jaklitsch et al. (2016a; position), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type species RO.

Melanolecia Hertel 1981, *Hymeneliaceae*, *Hymeneliales*, *Lecanoromycetes*, eight species, type: *M. transitoria* (Arnold) Hertel, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available, cultures available for the type: Meltra167.

Melanomma Nitschke ex Fuckel 1870 (= *Moriolopis* Norman ex Keissl. 1927 *fide* Species Fungorum 2017), *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, c. 30 species, type: *M. pulvis-pyrius* (Pers.) Fuckel, asexual morph unknown, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Melanommataceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Tian et al. (2015; taxonomy and phylogeny), Tibpromma et al. (2017b; new data), cultures available for type: CBS 371.75, CBS 109.77, CBS 124080, CBS 371.75.

Melanopeziza Velen. 1939, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *M. artemisiae* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, dried culture is available PRM 152097.

Melanophloea P. James & Vězda 1971, *Ascomycota* genera *incertae sedis*, one species, type: *M. pacifica* P. James & Vězda, asexual morph unknown, lichenized, terrestrial, tropical South-East Asia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Thelocarpaceae*), Aptroot and Schumm (2012b; evolution), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Melanophoma Papendorf & J.W. du Toit 1967, *Ascomycota* genera *incertae sedis*, one species, type: *M. karroo* Papendorf & G.W. du Toit, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2017; outline), cultures are available ex-type CBS 589.66, ATCC 18417, PRE43876.

Melanops Nitschke ex Fuckel 1870, *Melanopsaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *M. tulasnei* Fuckel, asexual morph coelomycetous, saprobes, terrestrial, cosmopolitan, see Phillips and Alves (2009; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Slippers et al. (2013; phylogeny, introduced of a new family *Melanopsaceae*), Wijayawardene et al. (2014c; outline, phylogeny), epitype and ex-epitype of the type: LISE 95179, CBS 116805.

Melanopsamma Niessl 1876, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, c. 40 species, type: *M. pomiformis* (Pers.) Sacc., asexual morph custingophora-like, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Niessliaceae*), Kirk et al. (2013; genus accepted), Wang et al. (2015e; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Lombard et al. (2016; phylogeny), cultures available for type: CBS 114119, CBS 325.50, CBS 114119, CBS 101322.

Melanormia Körb. 1865, *Leotiomycetes* genera *incertae sedis*, one species, type: *M. velutina* Körb., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Melanospora Corda 1836 (= *Gonatobotrys* Corda 1839 *fide* Réblová et al. 2016c; see Species Fungorum 2017 for additional synonyms), *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, 35 species, type: *M. zamiae* Corda, asexual morphs formerly named in *Gonatobotrys*, saprobes, from soil, fungicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010;

outline), Fan et al. (2012a; species from China), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Melanotopelia Lumbsch & Mangold 2008, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *M. toensbergii* (Vězda & Kantvilas) Lumbsch & Mangold, asexual morph unknown, lichenized, terrestrial, worldwide, see Mangold et al. (2008a; taxonomy), Sérusiaux et al. (2009a; new species, Rwanda), Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2010a, 2014a; new species, Falkland Island, accepted in *Graphidaceae*), Rivas Plata et al. (2012; accepted in *Graphidaceae*), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type species, holotype of the type species BG, Tønsberg 25545 (holotype of *Topeliopsis toensbergii* Kantvilas & Vězda).

Melanotrema Frisch 2006, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, eleven species, type: *M. platystomum* (Mont.) Frisch, asexual morph unknown, lichenized, terrestrial, worldwide, see Mangold et al. (2009; new species, Australia), Lumbsch and Huhndorf (2010; outline), Papong et al. (2010; new species), Rivas Plata et al. (2013; DNA, phylogeny), Kraichak et al. (2014; new species), Sipman (2014; new species), Lumbsch et al. (2014b; accepted in *Graphidaceae*), Lücking et al. (2017a; classification), cultures and sequences are available, cultures available for the type: DNA3492.

Melanotrigonum Réblová 2015, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, one species, type: *M. ovale* Réblová, asexual morph hyphomycetous, saprobes, terrestrial, Czech Republic, see Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2017; taxonomy), holotype and ex-type: PRM 933852, CBS 138743.

Melarthonis Frisch & G. Thor 2014, *Chrysotrichaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *M. piceae* Frisch & G. Thor, asexual morph unknown, saprobes, terrestrial, see Frisch et al. (2014; taxonomy), Lücking et al. (2017a; classification), holotype of the type: UPS, Thor 25995, sequences are available.

Melaspilea Nyl. 1857 (= *Eremithallus* Lücking, Lumbsch & L. Umaña 2008 *fide* Ertz and Diederich 2015; see Species Fungorum 2017 for additional synonyms), *Melaspileaceae*, *Eremithallales*, *Dothideomycetes*, 163 species, type: *M. arthonioides* (A. Massal.) Nyl., asexual morph unknown, saprobes, marine and terrestrial, worldwide, see Jones et al. (2009b, 2015; classification), Pérez-Ortega and Etayo (2010; morphology), Zainuddin et al. (2010; antimicrobial activities), Zhurbenko and Zhdanov (2013; morphology), Flakus et al. (2014; morphology), Ertz and Diederich (2015; phylogeny), Perlmutter et al. (2015; morphology), Lücking et al. (2017a; classification), sequences are available but lacking for the type.

Melaspileella (P. Karst.) Vain. 1921 (= *Banhegyia* L. Zeller & Tóth 1969 *fide* Ertz and Diederich 2015), *Asterinales* genera *incertae sedis*, *Dothideomycetes*, type: *M. proximella* (Nyl.) Ertz & Diederich, saprobes, Europe, see Ertz and Diederich (2015; taxonomy, phylogeny, designate the lectotype), sequences are available.

Melaspileopsis (Müll. Arg.) Ertz & Diederich 2015, *Melaspileaceae*, *Eremithallales*, *Dothideomycetes*, one species, type: *M. diplasiospora* (Nyl.) Ertz & Diederich, sexual morph with lirelliform ascomata, saprobes, terrestrial, tropical and subtropical, see Ertz and Diederich (2015; morphology, phylogeny), Ertz et al. (2016b; phylogeny), sequences are available, lectotype of the type: Lindig 846 (PC0146198).

Melastiza Boud. 1885, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 14 species, type: *M. miniata* (Fuckel) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Melchioria Penz. & Sacc 1897 (= *Exomassarinula* Teng 1940; = *Gaeumannia* Petr. 1950 *fide* Species Fungorum 2017), *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *M. leucomelaena* Penz. & Sacc., asexual morph unknown, terrestrial, saprobes, Indonesia and South America, cultures and sequences are unavailable.

Meliniomyces Hambl. & Sigler 2005, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *M. variabilis* Hambl. & Sigler, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available, holotype of the type: UAMH 8861.

Meliola Fr. 1825 (= *Arberia* Nieuwl. 1916; = *Asteridium* (Sacc.) Speg. ex Sacc. 1891; = *Asterina* subgen. Asteridium Sacc. 1882; = *Chaetomeliola* (Cif.) Bat., H. Maia & M.L. Farr 1962; = *Meliola* subgen. Chaetomeliola Cif. 1938; = *Laeviomeliola* Bat. 1960; = *Meliothecium* Mussat 1901; = *Myxothecium* Kunze 1829 *fide* Hongsanan et al. 2015d; Species Fungorum 2017), *Meliolaceae*, *Meliolales*, *Sordariomycetes*, c. 1300, type: *M. nidulans* (Schwein.) Cooke, asexual morph produced from the hyphae, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d, 2016c; taxonomy, evolution), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Meliolaster Höhn. 1918 (= *Meliolinopsis* Beeli 1920; = *Patouillardina* G. Arnaud 1917 *fide* Species Fungorum

2017), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, three species, type: *M. clavisporus* (Pat.) Höhn., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline), Hongsanan et al. (2014c; taxonomy, keys), cultures and sequences unavailable, holotype of type: FH 258798.

Meliolina Syd. & P. Syd. 1914, *Meliolinaceae*, *Dothideomycetes*, families *incertae sedis*, c. 40 species, type: *M. cladotricha* (Lév.) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; listed the family under excluded, doubtful and poorly known families), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Melioliphila Speg. 1921 (= *Subiculicola* Speg. 1921 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, seven species, type: *M. graminicola* (F. Stevens) Speg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted in *Tubeufiaceae*), Hyde et al. (2013; excluded from *Tubeufiaceae*), Boonmee et al. (2014b; excluded from *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mellitiosporiella Höhn. 1919, *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *M. pulchella* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), isotype of the type: CUP- D-12032, sequences are unavailable.

Mellitiosporium Corda 1838 (= *Pleiostictis* Rehm 1882 *fide* Species Fungorum 2017), *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, ?eleven species, type: *M. versicolor* Corda, asexual morph unknown, saprobes, terrestrial, America, Europe, New Zealand, see Lumbsch and Huhndorf (2010; outline, accepted as *Rhytismatales*, genera *incertae sedis*), Lantz et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Melnikia Wijayaw., Goonas., D.J. Bhat & K.D. Hyde, 2016, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. anthoxanthii* Wijayaw., Goonas., Camporesi, D.J. Bhat & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2016b, 2017; taxonomy, phylogeny, outline), holotype and ex-type of the type: MFLU 15–2657, MFLUCC 14–1010.

Melnikomyces Crous & U. Braun 2014, *Chaetothyriales* genera incertae sedis, *Eurotiomycetes*, one species, type: *M. vietnamensis* Crous & U. Braun, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Vietnam, see Crous et al. (2014c; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type strain of type: CBS H-21715, CPC 23554.

Meloderma Darker 1967, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, nine species, type: *M. desmazieri* (Duby) Darker, asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lantz et al. (2011; DNA, phylogeny), cultures and sequences are available.

Melogramma Fr. 1849 (= *Dothiora* Fr. 1836 *fide* Species Fungorum 2017), *Melogrammataceae*, *Amphisphaeriales*, *Sordariomycetes*, three species, type: *M. campylosporum* Fr., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline, accepted in *Melanconidaceae*), Jaklitsch and Voglmayr. (2012; phylogeny, accepted in *Melogrammataceae*), Kirk et al. (2013; genus accepted), Senanayake et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2016b; outline, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Melomastia Nitschke ex Sacc. 1875, *Sordariomycetes* genera *incertae sedis*, four species, type: *M. friesii* Nitschke, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Melophia Sacc. 1884, *Ascomycota* genera *incertae sedis*, four species, type: *M. ophiospora* (Lév.) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Memnoniella Höhn. 1923 (= *Fuckelina* Sacc. 1875; = *Gliobotrys* Höhn. 1902; = *Hyalobotrys* Pidopl. 1948; = *Hyalostachybotrys* Sriniv. 1958; = *Memnoniella* Höhn. 1923 [1924]; = *Ornatispora* K.D. Hyde, Goh, Joanne E. Taylor & J. Fröhl. 1999; = *Synsporium* Preuss 1849 *fide* Species Fungorum 2017), *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, 13 species, type: *M. echinata* (Riv.) Galloway hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; synonym of *Stachybotrys*), Wang et al. (2015e; synonym of *Stachybotrys*), Lombard et al. (2016; reinstated the genus, phylogeny), Lin et al. (2016b; new species), Wijayawardene et al. (2017; outline), cultures and sequences are available, epitype and ex-epitype culture of type species CBS H-22447, CBS 216.32.

Mendogia Racib. 1900 (= *Pleiostomella* Syd. & P. Syd. 1917; = *Uleopeltis* Henn. 1904 *fide* Species Fungorum

2017), *Myriangiaceae*, *Myriangiales, Dothideomycetes*, four species, type: *M. bambusina* Racib., asexual morph unknown, epiphytic, terrestrial, Indonesia, Philippine, Thailand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Wijayawardene et al. (2014c; outline), Dai et al. (2017, description, new species), cultures and sequences are unavailable.

Mendoziopeltis Bat. 1959, *Dothideomycetes* genera *incertae sedis*, four species, type: *M. byrsonimae* Bat. & Nascim. ex Bat., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as *Micropeltidaceae*), Hyde et al. (2013; excluded from *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus *Dothideomycetes*), cultures and sequences are unavailable.

Menegazzia A. Massal. 1854, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 70 species, type: *M. terebrata* (Hoffm.) A. Massal., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Menidochium R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *M. formosum* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Menispora Pers. 1822 (= *Ciliofusa* Clem. & Shear 1931; = *Ciliofusarium* Rostr. 1892; = *Eriomene* (Sacc.) Clem. & Shear 1931; = *Eriomenella* Peyronel 1918; = *Erionema* Maire 1906; = *Menispora* subgen. Eriomene Sacc. 1886; = *Zignoëlla* Sacc. 1878 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, 14 species, type: *M. glauca* (Link) Pers., hyphomycetous, sexual morph formerly named in *Zignoëlla*, saprobes, terrestrial, temperate, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are unavailable.

Menisporopsis S. Hughes 1952 (= *Menisporopascus* Matsush. 2003 *fide* Réblová et al. 2016c), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, nine species, type: *M. theobromae* S. Hughes, hyphomycetous, sexual morph formerly named in *Menisporopascus*, saprobes, terrestrial, temperate, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Liu et al. (2016a; phylogeny), Réblová et al. (2016c; nomenclature), cultures and sequences are available, available specimen of type: CBS H-19592.

Mercadomyces J. Mena 1988, *Ascomycota* genera *incertae sedis*, one species, type: *M. camagueyensis* J. Mena, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Meridianelia Kantvilas & Lumbsch 2009, *Elixiaceae*, *Umbilicariales*, *Lecanoromycetes*, one species, type: *M. maccarthyana* Kantvilas & Lumbsch, lichenized, corticolous, Tasmania, see Kantvilas and Lumbsch (2009; taxonomy), Bendiksby and Timdal (2013; phylogeny), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Merismatium Zopf 1898 (= *Heterophracta* (Sacc. & D. Sacc.) Theiss. & Syd. 1918; = *Leptosphaerulina* subgen. Heterophracta Sacc. & D. Sacc. 1905; = *Phaeocyrtis* Vain. 1921 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, eleven species, type: *M. lopadii* (Anzi) Zopf, asexual morph unknown, lichenicolous, terrestrial, Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Yazici and Aslan (2016; Asia, Turkey), cultures and sequences are unavailable.

Merismella Syd. 1927, *Ascomycota* genera *incertae sedis*, six species, type: *M. concinna* Syd., sexual morph *Chaetothyrium* Speg., epiphytic, terrestrial, Brazil, Greece, India, Panama, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Meristemomyces Isola & Onofri 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *M. frigidus* Isola & Onofri, hyphomycetous, sexual morph unknown, rock and plant inhabiting fungus, Italy, America, see Egidi et al. (2014; taxonomy), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2017; outline), Crous et al. (2016b; new species), type: CBS 136109 = CCFEE 5508, cultures and sequences available.

Merodontis Clem. 1909 (= *Davincia* subgen. *Davinciella* Sacc. & D. Sacc. 1906; = *Davinciella* (Sacc. & D. Sacc.) Trotter 1928 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *M. tenella* (Penz. & Sacc.) Clem., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Merugia Rogerson & Samuels 1990, *Sordariomycetidae* genera *incertae sedis*, seven species, type: *M. palicoureae* Rogerson & Samuels, saprobes, terrestrial, Guyana, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of the type: NY, Samuels 6552.

Mesniera Sacc. & P. Syd. 1902, *Mesnieraceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *M. rottlerae* (Racib.) Sacc. & P. Syd., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, available specimen of type: CBS H-4212.

Metacapnodium Speg. 1918 (= *Antennularia* Rchb. 1828; = *Capnocybe* S. Hughes 1966; = *Capnophialophora* S. Hughes 1966; *Capnosporium* S. Hughes 1976; = *Ophiocapnocoma* Bat. & Cif. 1963; = *Sthughesia* M.E. Barr 1987 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Metacapnodiaceae*, *Capnodiales*, *Dothideomycetes*, 13 species, type: *M. juniperi* (W. Phillips & Plowr.) Speg., asexual morph unknown, sooty mould on living plants, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hughes et al. (2012; morphology), Hyde et al. (2013; accepted as a genus in *Metacapnodiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Metacoleroa Petr. 1927, *Venturiaceae*, *Venturiales*, *Dothideomycetes*, one species, type: *M. dickiei* (Berk. & Broome) Petr., asexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2008; treated as a synonym of *Venturia* Sacc.), Lumbsch and Huhndorf (2010; outline), Raja et al. (2011a; DNA), Zhang et al. (2011d; morphology, phylogeny), Hyde et al. (2013; accepted as in *Venturiaceae*, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Metacordyceps G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora 2007, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 16 species, type: *M. taii* (Z.Q. Liang & A.Y. Liu) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora, asexual morph hyphomycetous, terrestrial, entomogenous and in soil and dung, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kepler et al. (2012a; sexual morph), Maharachchikumbura et al. (2015b, 2016b; outline), Wen et al. (2015; new species), cultures and sequences are available.

Metadiplodia Syd. 1937, *Ascomycota* genera *incertae sedis*, c. 40 species, type: *M. eucalypti* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Metadothella Henn. 1904, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *M. stellata* Henn., asexual morph hyphomycetous, terrestrial, Peru, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequences are unavailable, holotype and ex-type strain not available.

Metahyphopichia Sipiczki & Pfliegler 2016, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *M. laotica* Sipiczki, Pfliegler, Safar, Morais, & Rosa, dimorphic, asexual morph unknown, on plants, terrestrial, Southeast Asia, South America, see Sipiczki et al. (2016; taxonomy), cultures available for type: CBS 13022, CCY 092-001-001, NCAIM Y.02126, sequences are available.

Metamelanea Henssen 1989, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *M. umbonata* Henssen, lichenized, asexual morph unknown, terrestrial, Europe, North America, see Kirk et al. (2013; genus accepted), Prieto et al. (2015; records in Sweden), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Metameris Theiss. & Syd. 1915 (= *Scirrhodothis* Theiss. & Syd. 1915; = *Scirrhophragma* Theiss. & Syd. 1915 *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, three species, type: *M. japonica* (Syd. & P. Syd.) Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (accepted as a genus in *Phaeosphaeriaceae*), Phookamsak et al. (2014c; placed in *Botryosphaeriaceae*), Wijayawardene et al. (2014c; outline, accepted in *Botryosphaeriaceae*), cultures and sequences are unavailable.

Metapezizella Petr. 1968, *Leotiomycetes* genera *incertae sedis*, one species, type: *M. phyllachorivora* Petr., asexual morph unknown, saprobes, terrestrial, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Metapochonia Kepler, S.A. Rehner & Humber 2014, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *M. suchlasporia* (W. Gams & Dackman) Kepler, Rehner & Humber, asexual morph hyphomycetous, terrestrial, nematogenous and in soil, rotifers and plant roots, cosmopolitan, see Kepler et al. (2014; taxonomy), cultures and sequences are available, Holotype and ex-type of type species in Suecia, C. Dackman No. 10 (1983); CBS 251.83.

Metarhiziopsis D.W. Li, R.S. Cowles, Vossbrinck 2008, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. microspora* D.W. Li, R.S. Cowles & Vossbrinck, hyphomycetous, sexual morph unknown, terrestrial, entomogenous, USA, see Li et al. (2008b; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype and ex-type of type: BPI 878276 = UAMH 10901.

Metarhizium Sorokin 1879 (= *Chromostylium* Giard 1889 *fide* Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 24 species, type: *M. anisopliae* (Metschn.) Sorokīn, hyphomycetous, sexual morph unknown, terrestrial, entomogenous and in soil, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kepler et al. (2014; phylogeny), Chen et al. (2017c; new species, phylogeny), cultures and sequences are available.

Metathyriella Syd. 1927 (= *Ciferriotheca* Bat. & I.H. Lima 1959; = *Stomiopeltina* Bat. 1963 *fide* Species Fungorum 2017), *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *M. roupalae* Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013, accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Phookamsak et al. (2016; taxonomy), cultures and sequences are unavailable.

Metazythia Petr. 1950, *Ascomycota* genera *incertae sedis*, one species, type: *M. caespitosa* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Metazythiopsis M. Morelet 1988, *Ascomycota* genera *incertae sedis*, one species, type: *M. halepensis* M. Morelet, coelomycetous, sexual morph unknown, saprobes, terrestrial, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Metschnikowia Kamienski 1899 (= *Anthomyces* Grüss 1918; = *Chlamydozyma* Wick. 1964; = *Metschnikowiella* Henckel 1913; = *Monospora* Metschn. 1884; = *Monosporella* Keilin 1920; = *Nectaromyces* Syd. & P. Syd. 1919 [1918] *fide* Species Fungorum 2017), *Metschnikowiaceae*, *Saccharomycetales*, *Saccharomycetes*, c. 100 species (including c. 50 *Candida* species in the *Metschnikowia* clade), type: *M. bicuspidata* (Metschnikoff) T. Kamienski, asexual reproduction is by multilateral budding, saprophytic, on beetles, fruit flies, rotted plants, berries, water, seawater, flowers of various plant species, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Crous et al. (2015d; new species, phylogeny), asexual species in this clade are classified in the genus *Candida*, but will be transferred to *Metschnikowia* as new combinations, sequences are available.

Metulocladosporiella Crous, Schroers, J.Z. Groenew., U. Braun & K. Schub. 2006, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *M. musae* (E.W. Mason) Crous, Schroers, J.Z. Groenew., U. Braun & K. Schub., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Neotropics, see Seifert et al. (2011; morphology), Xu et al. (2011; phylogeny), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Metus D.J. Galloway & P. James 1987, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *M. conglomeratus* (F. Wilson) D.J. Galloway & P. James, asexual morph unknown, lichenized, terrestrial, Australasia, see Lumbsch et al. (2010b; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a, classification), cultures and sequences are available, cultures available for the type: AFTOL-ID 4945.

Meyerozyma Kurtzman & M. Suzuki 2010, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, five species, type: *M. guilliermondii* (Wickerham) Kurtzman & M. Suzuki, asexual reproduction is by multilateral budding, saprophytic, but *M. guilliermondii* is a common clinical species, atmosphere, soil, water, sugar cane and other plants, plant debris, fruit, mammals, worldwide, see Kurtzman and Suzuki (2010; taxonomy), Bautista-Rosales et al. (2013; bio control agent of *Colletotrichum* sp.), Coda et al. (2013; antifungal properties), sequences are available.

Micarea Fr. [nom. cons.] 1825 (= *Hastifera* D. Hawksw. & Poelt 1986; = *Helocarpon* Th. Fr. 1860; = *Stereocauliscum* Nyl. 1865 *fide* Species Fungorum 2017), *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 100 species, type: *M. prasina* Fr., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Micareopsis R.C. Harris & Lendemer 2013, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *M. irriguata* R.C. Harris & Lendemer, asexual morph unknown, lichenized, terrestrial, USA, see Lendemer et al. (2013; taxonomy), cultures and sequences are unavailable, holotype of the type species NY, Buck 49935.

Micraspis Darker 1963, *Tympanidaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *M. acicola* Darker, asexual morph unknown, saprobes, North America, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk

et al. (2013; genus accepted), Index Fungorum (2015; new family), cultures and sequences are unavailable.

Microascus Zukal 1886 (= *Fairmania* Sacc. 1906; = *Nephrospora* Loubière 1923; = *Peristomium* Lechmere 1912 *fide* Species Fungorum 2017), *Microascaceae*, *Microascales*, *Sordariomycetes*, 51 species, type: *M. longirostris* Zukal, asexual morph hyphomycetous, coprophilous, on human, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Sandoval-Denis et al. (2016a; new species, phylogeny), Crous et al. (2016b; new species), Jagielski et al. (2016; new species, phylogeny), neotype and ex-neotype of type: CBS H-14440, MUCL 9058.

Microblastosporon Cif., 1930, *Ascomycota* genera *incertae sedis*, one species, type: *M. botryoideum* (Chaborski) Cif., hyphomycetous, saprobes or plant pathogenic, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microcalicium Vain. 1927 (= *Coniocybopsis* Vain. 1927; = *Strongylopsis* Vain. 1927 *fide* Species Fungorum 2017), *Microcaliciaceae*, *Ascomycota* families *Incertae sedis*, four species, type: *M. disseminatum* (Ach.) Vain., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Prieto et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), voucher for the type species (sequence data also deposited under this number) Wedin 6353 (Prieto et al. 2012).

Microcallis Syd. 1926 (= *Barnettia* Bat. & J.L. Bezerra 1962; = *Fraseria* Bat. 1962; = *Hansfordina* Bat. 1962; = *Kanousea* Bat. & Cif. 1962; = *Microcalliomyces* Bat. & Cif. 1962; = *Microcalliopsis* Bat. & Cif. 1962; = *Neopeltis* Petr. 1949; = *Recifea* Bat. & Cif. 1962 *fide* Species Fungorum 2017), *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, ten species, type: *M. phoebes* Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microcera Desm. 1848, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, nine species, type: *M. coccophila* Desm., asexual morph hyphomycetous, terrestrial, entomogenous, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Gräfenhan et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, lectotype of type: K(M) 165807.

Microclava F. Stevens 1917 (= *Ommatospora* Bat. & Cavalc. 1964 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, six species, type: *M. miconiae* F. Stevens, hyphomycetous, saprobes or plant pathogenic, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microcyclella Theiss. 1914, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. nervisequia* (Höhn.) Theiss., asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Microcyclephaeria Bat. 1958, *Hypocreales*, genera *incertae sedis*, one species, type: *M. palmicola* (Syd.) Bat. & H. Maia ex Bat., asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariomycetes* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Microcyclospora J. Frank, Schroers & Crous 2010, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, seven species, type: *M. pomicola* J. Frank, B. Oertel, Schroers & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Canada, Iran, see Frank et al. (2010; taxonomy, phylogeny), Arzanlou and Bakhshi (2011; new species), Seifert et al. (2011; morphology), Crous et al. (2012c; new species, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Microcyclosporella J. Frank, Schroers & Crous 2010, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *M. mali* J. Frank, Schroers & Crous, hyphomycetous, sexual morph unknown, plant pathogenic, epiphytic, Slovenia, see Frank et al. (2010; morphology, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype and ex-type of type: CBS H-20413; CBS 126136.

Microcyclus Sacc., Syd. & P. Syd. 1904 (= *Diplochora* Syd. & P. Syd. 1913; = *Diplochorella* Syd. & P. Syd. 1913; = *Lizoniella* Henn. ex Sacc. & D. Sacc. 1905; = *Melanopsammopsis* Stahel 1915; = *Pseudosphaerella* Höhn. 1911 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, c. 15 species, type: *M. angolensis* Sacc., Syd. & P. Syd., asexual morph unknown, pathogen, saprobes, endophytes, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable for type species.

Microdiplodia Allesch. 1901 (= *Microbotryodiplodia* Sousa da Câmara 1951; = *Syndiplodia* Peyronel 1915 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae*

sedis, 30 species, type: *M. conigena* Allesch., sexual morph unknown, saprobes, terrestrial, Europe, Canada, Iran, see Wijayawardene et al. (2016b; outline, taxonomic notes and treated as doubtful), cultures and sequences are available, need generic revision and epitypification.

Microdiscula Höhn. 1915, *Ascomycota* genera *incertae sedis*, two species, type: *M. rubicola* (Bres.) Höhn., coelomycetous, sexual morph unknown, saprobes or plant pathogenic, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted); cultures and sequences are unavailable.

Microdiscus Sacc. 1916 (= *Brachyascus* Syd. & P. Syd. 1917; = *Microascus* Sacc. 1916 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *M. americanus* (Sacc.) Trotter, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microdochiella M. Hern.-Restr. & Crous 2016, *Orbiliales*, genera *incertae sedis*, *Orbiliomycetes*, one species, type: *M. fusarioides* (D.C. Harris) M. Hern.-Restr. & Crous, hyphomycetous, sexual morph unknown, fungicolous, see Hernández-Restrepo et al. (2016a, b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: IMI 281715, CBS 741.83.

Microdochium Syd. & P. Syd. 1924 (= *Gerlachia* W. Gams & E. Müll. 1980; = *Griphosphaerella* Petr. 1927; = *Monographella* Petr. 1924 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Microdochiaceae*, *Xylariales*, *Sordariomycetes*, 25 species, type: *M. phragmitis* Syd., hyphomycetous, sexual morph formerly named in *Monographella*, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Hernández-Restrepo et al. (2016b; phylogeny, introduced *Microdochiaceae*), Réblová et al. (2016c; nomenclature), holotype and epitype of the type: K-IMI 193888, CBS H-22135, ex-epitype culture CBS 285.71.

Microdothella Syd. & P. Syd. 1914 (= *Phaeopolystomella* Bat. & H. Maia 1960 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, two species, type: *M. culmicola* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, North America, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Microdothiorella C.A.A. Costa & Sousa da Câmara 1955, *Ascomycota* genera *incertae sedis*, one species, type: *M. sphaeralceae* M.E.A. Costa & Sousa da Câmara, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Portugal, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microeurotium Ghatak 1936, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, two species, type: *M. albidum* Ghatak, asexual morph unknown, saprobes or coprophilous, terrestrial, UK, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microglossum Gillet 1879 (= *Geoglossum* subgen. *Leptoglossum* Cooke 1879; = *Helote* Hazsl. 1881; = *Leptoglossum* (Cooke) Sacc. 1884; = *Leptoglossum* sect. *Xanthoglossum* Sacc. 1889; = *Microglossum* Gillet 1908; = *Ochroglossum* S. Imai 1955; = *Xanthoglossum* (Sacc.) Kuntze 1891 *fide* Species Fungorum 2017), *Leotiaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *M. olivaceum* (Pers.) Gillet, asexual morph unknown, saprobes, on soil, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kučera et al. (2014; new species, phylogeny), Pärtel et al. (2017; phylogeny), cultures and sequences are available for the type species SAV 9902 (Kučera et al. 2014) and KL220.

Microhendersonula Dias & Sousa da Câmara 1952, *Ascomycota* genera *incertae sedis*, one species, type: *M. cestri* Dias & Sousa da Câmara, coelomycetous, saprobes or plant pathogenic, Portugal, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microhilum H.Y. Yip & A.C. Rath 1989, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. oncoperae* H.Y. Yip & A.C. Rath, hyphomycetous, terrestrial, entomogenous, Australia, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012; checklist), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; *Sordariomycetes*), cultures and sequences are available, holotype of type species DATH 64D6.

Microidium (To-anun & S. Takam.) To-anun & S. Takam. 2012 (= *Oidium* subgen. *Microidium* To-anun & S. Takam. 2005 *fide* Species Fungorum 2017), *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, four species, type: *M. phyllanthi* (J.M. Yen) To-anun & S. Takam. (≡ *Oidium phyllanthi* J.M. Yen), hyphomycetous, sexual morphs unknown, biotrophic, obligate plant pathogens, terrestrial, Asia, South America, see Braun and Cook (2012; taxonomy), Tam et al. (2015; Vietnam), sequences are available.

Micromastia Speg. 1909, *Ascomycota* genera *incertae sedis*, two species, type: *M. trigonospora* Speg., asexual morph unknown, saprobes, on soil, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Micronectria Speg. 1885, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *M. guaranitica* Speg., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as nom. dub.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Micronematobotrys Xiang Sun & L.D. Guo 2010, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 14 species, type: *M. verrucosus* Xiang Sun & L.D. Guo, hyphomycetous, sexual morph unknown, saprobes, terrestrial, China, see Sun and Guo (2010; taxonomy, phylogeny), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype and cultures available for type species HMAS 186049; E13-2151.

Micropeltis Mont. 1842 (= *Dictyothyriella* Rehm 1914; = *Hormopeltis* Speg. 1912; = *Micropeltella* Syd. & P. Syd. 1913; = *Micropeltidium* Speg. 1919 [1918]; = *Ophiopeltis* J.V. Almeida & Sousa da Câmara 1903; = *Parapeltella* Speg. 1919 [1918]; = *Scolecopeltella* Speg. 1921; = *Scolecopeltopsis* Höhn. 1909; = *Theciopeltis* F. Stevens & Manter 1925 *fide* Species Fungorum 2017), *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, c. 110 species, type: *M. applanata* Mont., asexual morph unknown, epiphytes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), Hongsanan et al. (2015a; new species), cultures and sequences are unavailable.

Microperella Höhn. 1909, *Ascomycota* genera *incertae sedis*, one species, type: *M. quercus* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Micropeziza Fuckel 1870 (= *Actinoscypha* P. Karst. 1888; = *Calloriella* Höhn. 1918; = *Crustomollisia* Svrček 1987 [1986]; = *Niesslella* Höhn. 1919 [1918] *fide* Jaklitsch et al. 2016a; Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, twelve species, type: *M. cornea* (Berk. & Broome) Nannf., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Micropodia Boud. 1885, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *M. pteridina* (Nyl.) Boud., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Micropustulomyces R.W. Barreto 1995, *Ascomycota* genera *incertae sedis*, one species, type: *M. mucilaginosus* R.W. Barreto, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microscypha Syd. & P. Syd. 1919 (= *Mollisiaster* Kirschst. 1939 *fide* Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *M. grisella* (Rehm) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Europe, South Africa, see Huhtinen et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Microsomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *M. psammoechi* Thaxt., asexual morph unknown, biotrophic, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microsphaeropsis Höhn. 1917 (= *Chaetosphaeropsis* Curzi & Barbaini 1927; = *Coniothyriopsis* Speg. 1911; = *Cryptophaeella* Höhn. 1917; = *Microsporella* Höhn. 1918; = *Phyllostictella* Tassi 1901; = *Sclerothyrium* Höhn. 1918 *fide* Species Fungorum 2017), *Microsphaeropsidaceae*, *Pleosporales*, *Dothideomycetes*, 37 species, type: *M. olivacea* (Bonord.) Höhn., coelomycetous, sexual morph unknown, saprobes, pathogens of both plants and animals, lichenicolous, terrestrial, worldwide, see Etayo and Sancho (2008; new species), Marincowitz et al. (2008; new species), Pethybridge et al. (2008; new species, Australia), de Gruyter et al. (2009; DNA, phylogeny), Etayo and Yazici (2009; new species, lichenicolous), Alves et al. (2010; new species, Costa Rica), Crous et al. (2011d; new species, pathogens, *Proteaceae*), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), Brackel (2014; new species), Chen et al. (2015b; taxonomy, phylogeny), cultures available for the type: CBS 116669, CBS 442.83.

Microsporum Gruby 1843 (= *Closteroaleurosporia* Grigoraki 1924; = *Closterosporia* Grigoraki 1924; = *Sabouraudites* M. Ota & Langeron 1923; = *Thallomicrosporon* Benedek 1964 *fide* Species Fungorum 2017), *Arthrodermataceae*, *Onygenales*, *Eurotiomycetes*, c. 17 species, type: *M. audouinii* Gruby, hyphomycetous, sexual morph unknown, on humans and other mammals, causing microspores, terrestrial, worldwide, see Seifert et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Hubka et al. (2014b; new species), cultures and sequences are available, culture available for the type: CBS 280.63.

Microstoma Bernstein 1852 (= *Anthopeziza* Wettst. 1885; = *Articulariella* Höhn. 1909; = *Articulis* Clem. & Shear 1931 *fide* Species Fungorum 2017), *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *M. hiemale* Bernstein, asexual morph unknown, saprobe, terrestrial, Costa Rica, Canary Islands, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microtheliopsis Müll. Arg. 1890 (= *Chaetomonodorus* Bat. & H. Maia 1961; = *Micropyrenula* Vain. 1921; = *Microtheliopsidomyces* Cif. & Tomas. 1953; = *Scutomyces* J.L. Bezerra & Cavalc. 1972 *fide* Species Fungorum 2017), *Microtheliopsidaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *M. uleana* Müll. Arg., asexual morph unknown, saprobe, terrestrial, Central and South America, Australasia, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Microthia Gryzenh. & M.J. Wingf. 2006, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *M. havanensis* (Bruner) Gryzenh. & M.J. Wingf., asexual morph unknown, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and cultures available for the type: BPI 614275; CMW 10879 = CBS 115758, PREM 57522.

Microthyrium Desm. 1841 (= *Calothyriella* Höhn. 1917; = *Microthyrina* Bat. 1960; = *Phragmothyrium* Höhn. 1912 *fide* Species Fungorum 2017), *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, c. 60 species, type: *M. microscopicum* Desm., asexual morph unknown, epiphytes, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Wu et al. (2011, 2014a; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Microthyriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Microtyle Speg. 1919, *Ascomycota* genera *incertae sedis*, one species, type: *M. bergii* Speg., asexual morph coelomycetous, saprobes or plant pathogenic, South America, See Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and cultures and sequences are unavailable.

Microxiphium (Harv. ex Berk. & Desm.) Thüm. 1879 (= *Dennisiella* Bat. & Cif. 1962 *fide* Rossman et al. 2016a), *Coccodiniaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *M. footii* (Harv. ex Berk. & Desm.) Thüm., hyphomycetous, sexual morph formerly known in *Dennisiella*, sooty moulds, Europe, North America, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Microxyphiella Speg. 1918, *Ascomycota* genera *incertae sedis*, 15 species, type: *M. fuligo* (Berk. & Desm.) Speg., coelomycetous, saprobes or plant pathogenic, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Microxyphiopsis Bat. 1963, *Ascomycota* genera *incertae sedis*, two species, type: *M. byrsonimae* Bat., coelomycetous, saprobes or plant pathogenic, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Micularia Boedijn 1961, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *M. merremiae* Boedijn, asexual morph unknown, saprobes, parasitic, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline, accepted genus as in *Elsinoaceae*), Hyde et al. (2013; accepted in *Myriangiaceae*), Dissanayake et al. (2014; accepted in *Myriangiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Middelhovenomyces Kurtzman & Robnett 2014, ?*Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *M. tepae* (J. Grinbergs) C.P. Kurtzman & C.J. Robnett, asexual reproduction is by multilateral budding and from formation of pseudohyphae, saprophytes, rotted wood, Chile, see Kurtzman and Robnett (2014; taxonomy), sequences are available.

Midotiopsis Henn. 1902, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *M. bambusicola* Henn., asexual morph unknown, saprobes, terrestrial, America (tropical), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Miladina Svrček 1972 (= *Actinosporella* Descals et al. 1999 *fide* Healy et al. 2016), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, two species, type: *M. lecithina* (Cooke) Svrček, asexual morph formerly named in *Actinosporella*, saprobes, hypogeous, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), sequences are available for the type species from voucher KH.04.22 (Hansen et al. 2013).

Millerburtonia Cif. 1951, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *M. oyedaeae* Cif., coelomycetes, sexual morph unknown, saprobes, terrestrial, Venezuela, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Millerozyma Kurtzman & M. Suzuki 2010, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, five species, type: *M. farinosa* (Lindner) Kurtzman & M. Suzuki, asexual reproduction is by multilateral budding, saprophytic, on beetle larvae, food contaminants, dung, worldwide, see Kurtzman and Suzuki (2010; taxonomy), sequences are available.

Milospium D. Hawksw. 1975 (= *Spilomium* Nyl. 1856 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, three species, type: *M. graphideorum* (Nyl.) D. Hawksw., lichenicolous, terrestrial, sexual morph unknown, Europe, see Seifert et al. (2011; genus accepted), Kirk et al. (2013; genus accepted), Crous et al. (2015a; phylogeny), cultures and sequences are available, conserved type and epitype of type species BM (Herb. Lich. Paris 72), CBS H-22271.

Miltidea Stirt. 1898, *Miltideaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *L. rubricatula* Stirt., lichenized, Southern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Mimeomyces Thaxt. 1912, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 16 species, type: *M. decipiens* Thaxt., asexual morph unknown, parasites, worldwide, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species), Kirk et al. (2013; genus accepted), sequences and culture unavailable.

Mindoa Petr. 1949, *Ascomycota* genera *incertae sedis*, two species, type: *M. ingae* Petr., coelomycetous, saprobes or plant pathogenic, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Miniancora Marvanová & Bärl. 1989, *Leotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *M. allisoniensis* Marvanová and Bärl., hyphomycetous, sexual morph unknown, saprobes, freshwater, Canada, see Wijayawardene et al. (2012, 2017; outline), sequence is available, ex-type strain CCM F-30487.

Minimelanolocus R.F. Castañeda & Heredia 2001, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, 26 species, type: *M. navicularis* (R.F. Castañeda) R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, China, Portugal, Mexico, Cuba, see Ma et al. (2011a, b; China; new species), Hernández-Restrepo et al. (2012a; Portugal), Heredia et al. (2014; Mexico), Liu et al. (2015a, c; phylogeny), Hyde et al. (2016; new species), Tian et al. (2016b; new species), sequence available but lacking for the type species, holotype of the type: INIFAT C86/157, compare with *Pseudospiropes*, *Spiropes* and *Sympodioplanus*.

Minimidochium B. Sutton 1970 (= *Neottiosporella* Höhn. ex Graniti 1951 *fide* Seifert et al. 2011), *Ascomycota* genera *incertae sedis*, eight species, type: *M. setosum* B. Sutton, hyphomycetous, saprobes or plant pathogenic, widespread (tropical), see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 103360c.

Minksia Müll. Arg. 1882 (= *Cyrtographa* Müll. Arg. 1894 [1893] *fide* Species Fungorum 2017), *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, six species, type: *M. caesiella* Müll. Arg., lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Mintera Inácio & P.F. Cannon 2003, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *M. reticulata* (Starbäck) Inácio & P.F. Cannon, asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, Isotype of type species S F20503.

Minteriella Heredia, R.F. Castañeda & R.M. Arias 2013, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. cenotigena* Heredia, R.F. Castañeda & R.M. Arias, hyphomycetous, sexual morph unknown, saprobes, aquatic, Mexico, see Heredia et al. (2013; morphology), holotype of the type: XAL CB897, cultures and sequences are unavailable, compare with *Cylindrosympodium*, *Polyscytalum* and *Sympodioplanus*.

Minutiella Crous 2015, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, one species, type: *M. tardicola* (Damm & Crous) Crous, coelomycetous, sexual morph unknown, in necrotic wood of *Prunus armeniaca*, pathogens, terrestrial, South Africa, see Crous et al. (2015d; phylogeny), cultures and sequences are available, holotype and ex-type culture of type: CBS H-20000, CBS 121757.

Minutisphaera Shearer, A.N. Mill. & A. Ferrer 2011, *Minutisphaeraceae*, *Minutisphaerales*, *Dothidiomycetes*, four species, type: *M. fimbriatispora* Shearer, A.N. Mill. & A. Ferrer, freshwater, USA, Japan, see Ferrer et al. (2011; taxonomy), Raja et al. (2013b, 2015; phylogeny, new species), cultures and sequences are available, holotype of type: A242-8 (ILL).

Minutoexcipula V. Atienza & D. Hawksw. 1994, *Ascomycota* genera *incertae sedis*, seven species, type: *M. tuckerae* V. Atienza & D. Hawksw., coelomycetous, sexual morph unknown, terrestrial, lichenicolous, Europe, North America, see Atienza et al. (2009; generic concept),

Kirk et al. (2013; genus accepted), Wijayawardene et al. (2016b; morphology), cultures and sequences are unavailable, holotype of type: K(M)-IMI 352335.

Minutophoma D. Hawksw. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *M. chrysophthalmae* D. Hawksw., sexual morph unknown, lichenicolous, Europe, terrestrial, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Mirandina G. Arnaud ex Matsush. 1975 (= *Chaetonectrioides* Matsush. 1996; = *Mirandina* G. Arnaud ex Matsush. 1971; = *Mirandina* G. Arnaud 1952 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, eleven species, type: *M. corticola* G. Arnaud ex Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial and aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Ma et al. (2015: morphology), Fiuza et al. (2016: morphology), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Mirannulata Huhndorf, F.A. Fernández, A.N. Mill. & Lodge 2003, *Sordariomycetidae* genera *incertae sedis*, four species, type: *M. samuelsii* Huhndorf, F.A. Fernández, A.N. Mill. & Lodge, asexual morph unknown, saprobes, terrestrial, neotropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and cultures for the type species F (Huhndorf 1880); SMH 1880.

Miricatena Punith. & Spooner 2011, *Ascomycota* genera *incertae sedis*, two species, type: *M. prunicola* Punith. & Spooner, hyphomycetous, sexual morph unknown, pathogens, terrestrial, UK, see Punithalingam and Spooner (2011b; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Mirimyces Nag Raj 1993, *Ascomycota* genera *incertae sedis*, one species, type: *M. pulcher* Nag Raj, coelomycetous, saprobes or plant pathogenic, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: DAOM 215253.

Miriquidica Hertel & Rambold 1987, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, 30 species, type: *M. complanata* (Körb.) Hertel & Rambold (*Lecanora complanata* Körb.), lichenized fungi, saxicolous, lichenicolous, worldwide temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Singh et al. (2013a; phylogeny), Miądlikowska et al. (2014a; phylogenetic placement), Lücking et al. (2017a; classification), sequence are available.

Mischoblastia A. Massal. 1852, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, three species, type: *M. oxydata* A. Massal., lichenized, see Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Prieto and Wedin (2016; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Misgomyces Thaxt. 1900, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *M. dyschirii* Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Misturatosphaeria Mugambi & Huhndorf 2009, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *M. aurantiacinotata* Mugambi & Huhndorf, asexual morph unknown, saprobes, Italy, see Mugambi and Huhndorf (2009a; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Lophiostomataceae*), Wijayawardene et al. (2014c; accepted as a genus in *Lophiostomataceae*), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora* but in here we do not agree with them), cultures and sequences are available.

Mitopeltis Speg. 1921, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. chilensis* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted in *Micropeltidaceae*), Hyde et al. (2013; excluded from *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mitrula Fr. 1821, *Mitrulaceae*, *Helotiales*, *Leotiomycetes*, eight species, type: *M. paludosa* Fr., asexual morph hyphomycetous, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Mitrulinia Spooner 1987, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *M. ushuaiae* (Rehm) Spooner, asexual morph unknown, saprobes, terrestrial, southern hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures or sequence are unavailable.

Miuraea Hara 1948 (= *Hyalodictys* Subram. 1962; = *Rhopaloconidium* Petr. 1952 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *M. degenerans* (Syd. & P. Syd.) Hara, hyphomycetous, sexual morph mycosphaerella-like, plant pathogenic, see Crous et al. (2012a; phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, holotype of type: M. Miura 572 (S-F1753).

Mixtoconidium Etayo 1995, *Arthoniales* genera *incertae sedis*, Arthoniomycetes, two species, type:

M. insidens (Vouaux) Etayo & van den Boom asexual morph related Niebla and sexual morph related to California, parasymbiont on *Ramalina*, terrestrial, Canary Islands, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), van den Boom and Etayo (2017; classification) cultures and sequences are unavailable, holotype of the type: IMI Etayo 3470.

Mixtura O.E. Erikss. & J.Z. Yue 1990, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. saginata* (Syd.) O.E. Erikss. & J.Z. Yue, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phaeosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; placed in *Didymellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequence are unavailable.

Miyakeomyces Hara 1913, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. bambusae* Hara, asexual morph hyphomycetous, terrestrial, saprobes, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequence are unavailable.

Miyoshiella Kawam. 1929 (see Species Fungorum 2017 for synonyms), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *M. fusispora* Kawam., asexual morph unknown, terrestrial, saprobes, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; not accepted as valid genus), Index Fungorum (2016; synonym of *Chaetosphaeria*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequence are unavailable.

Mniaecia Boud. 1885; *Helotiaceae*, *Helotiales*, *Leotiomycetidae*, *Leotiomycetes*, three species, type: *M. jungermanniae* (Fr.) Boud., asexual morph unknown, bryosymbiont/parasite, terrestrial, Europe, America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Czarnota and Hernik (2013; lichenized), cultures are available, two species have sequence data.

Moana Kohlm. & Volkm.-Kohlm. 1989, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *M. turbinulata* Kohlm. & Volkm.-Kohlm., asexual morph unknown, marine, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Mobergia H. Mayrhofer & Sheard 1992, *Physciaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *M. calculiformis* (W.A. Weber) H. Mayrhofer & Sheard, asexual morph unknown, terrestrial, saprobes, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Moelleriella Bres. 1896, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 25 species, type: *M. sulphurea* Bres., asexual morph hyphomycetous or coelomycetous, terrestrial, entomogenous, tropical South America and French Guiana, see Chaverri et al. (2008; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Li et al. (2016a; new species, coelomycetous), Tibpromma et al. (2017b; new species), cultures and sequences are available, neotype of type: CUP 067787, ex-type strain P.C. 756.

Moleospora Abdel-Wahab, Abdel-Aziz & Nagah. 2010, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *M. maritima* Abdel-Wahab, Abdel-Aziz & Nagah., hyphomycetous, sexual morph unknown, saprobes, marine, Egypt, Saudi Arabia, see Abdel-Wahab et al. (2010, phylogeny), Jones et al. (2015; phylogeny, outline), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), cultures and sequences are available.

Molleriella G. Winter 1886 (= *Agyrona* Höhn. 1909; = *Capnodiopsis* Henn. 1902; = *Elachophyma* Petr. 1931; = *Elenkinella* Woron. 1922; = *Nostocotheca* Starbäck 1899 *fide* Species Fungorum 2017), *Elsinoaceae*, *Myriangiales*, *Dothideomycetes*, four species, type: *M. mirabilis* G. Winter, asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jayawardena et al. (2014; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mollicamarops Lar.N. Vassiljeva 2007, *Boliniaceae*, *Boliniales*, *Sordariomycetes*, one species, type: *M. stellata* Lar.N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate zone, see Huhndorf and Miller (2008; morphology), Lumbsch and Huhndorf (2010; outline), Untereiner et al. (2013; accepted in *Boliniaceae*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: VLA P-2942.

Mollisia (Fr.) P. Karst. 1871 (= *Aleuriella* (P. Karst.) P. Karst. 1871; = ?*Atrocybe* Velen. 1947; = *Belonopsis* (Sacc.) Rehm 1891; = *Crustula* Velen. 1934; = *Cystodendron* Bubák 1914; = *Dibeloniella* Nannf. 1932; = *Haglundia* Nannf. 1932; *Mollisiella* Boud. 1885; *Peziza* sect. *Aleuriella* P. Karst. 1869; *Peziza* trib. *Mollisia* Fr. 1822; = *Syntexis* Theiss. 1916; = *Tapesia* (Pers.) Fuckel 1870 *fide* Jaklitsch et al. 2016a; Species Fungorum 2017), *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, c. 130 species, type: *M. cinerea* (Batsch) P. Karst., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tanney et al. (2016; DNA), cultures and

sequences are available, available specimen and cultures for the type: CBS H-14530, AFTOL-ID 76.

Mollisina Höhn. ex Weese 1926 (= *Dendrotrichoscypha* Svrček 1977 *fide* Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, eleven species, type: *M. rubi* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, America, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), cultures and sequences are available.

Mollisinopsis Arendh. & R. Sharma 1984, *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *M. filicis* Arendh. & R. Sharma, asexual morph unknown, saprobes, terrestrial, Bhutan, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of the type: PAN 17819.

Mollisiopsis Rehm 1908, ?*Helotiales* genera *incertae sedis*, *Leotiomycetes*, seven species, type: *M. subcinerea* Rehm, asexual morph unknown, saprobes, terrestrial, America, Europe, see Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification; treated as a synonym of *Pyrenopeziza* Fuckel), cultures and sequences are unavailable.

Monandromyces R.K. Benj. 1999, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eleven species, type: *M. microveliae* (Thaxt.) R.K. Benj., asexual morph unknown, biotrophic, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Monascella Guarro & Arx 1986, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *M. botryosa* Guarro & Arx, asexual morph unknown, saprobes, Spain, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: CBS 233.85.

Monascostroma Höhn. 1918, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. five species, type: *M. innumerosum* (Desm.) Höhn., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Kirk et al. (2008; treated as a synonym of *Hendersonia* Berk.), Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), cultures and sequences are available.

Monascus Tiegh. 1884 (= *Allescheria* Sacc. & P. Syd. 1899; = *Basipetospora* G.T. Cole & W.B. Kendr. 1968; = *Backusia* Thirum., M.D. Whitehead & P.N. Mathur 1965 [1964]; = *Eurotiella* Lindau 1900; = *Eurotiopsis* Costantin ex Laborde 1897; = *Physomyces* Harz 1890; *fide* Rossman et al. 2016a), *Monascaceae*, *Eurotiales*, *Eurotiomycetes*, 14 species, type: *Monascus ruber* Tiegh., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures and sequences are available, available specimen for type: CBS H-14541.

Monerolechia Trevis. 1857, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, five species, type: *M. bayrhofferi* (Schaer.) Trevis., lichenized, Asia, Australia, Europe, see Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Prieto and Wedin (2016; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Monilinia Honey 1928 (= *Monilia* Bonord. 1851 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, c. 30 species, type: *M. fructicola* (G. Winter) Honey, asexual morph formerly named in *Monilia*, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Zhu et al. (2016; pathogens, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Monilochaetes Halst. ex Harter 1916 (= *Australiasca* Sivan. & Alcorn 2002; = *Dischloridium* B. Sutton 1977 [1976]; = *Hyalocylindrophora* J.L. Crane & Dumont 1978 *fide* Réblová et al. 2016c; Species Fumgorum 2017), *Australiascaceae*, *Glomerellales*, *Sordariomycetes*, two species, type: *M. infuscans* Harter, hyphomycetous, sexual morph formerly named in *Australiasca*, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Réblová et al. (2011, 2016c; taxonomy, phylogeny, nomenclature), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available, available specimen and cultures for the type: CBS H-1013, CBS 869.96.

Monoblastia Riddle 1923, *Monoblastiaceae*, *Monoblastiales*, *Dothideomycetes*, eleven species, type: *M. palmicola* Riddle, asexual morph unknown, lichenized, Spain, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Monoblastiopsis R.C. Harris & C.A. Morse 2008, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. konzana* R.C. Harris & C.A. Morse, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: KANU 371963.

Monochaetia (Sacc.) Allesch. 1902 (= *Lennisia* Nieuwl. 1916; = *Pestalotia* subgen. *Monochaetia* Sacc. 1884 *fide* Species Fungorum 2017), *Xylariomycitidae* genera *insertae*

sedis, *Sordariomycetes*, 28 species, type: *M. monochaeta* (Desm.) Allesch., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; phylogeny), de Silva et al. (2017, new species, phylogeny), cultures and sequences are available, available specimen and cultures for the type: CBS H-14561; CBS 115004, CBS 191.82.

Monochaetiella E. Castell. 1943, *Ascomycota* genera *incertae sedis*, three species, type: *M. hyparrheniae* E. Castell., asexual morph coelomycetous, saprobes or plant pathogenic, widespread, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Monochaetiellopsis B. Sutton & DiCosmo 1977 (= *Hypnotheca* Tommerup 1970 *fide* Johnston et al. 2014b), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *M. themedae* (M. Kandasw. & Sundaram) B. Sutton & DiCosmo, coelomycetous, sexual morph *Hypnotheca*, saprobes, terrestrial, India, Australia, Tanzania, see Wijayawardene et al. (2012, 2017; outline), Johnston et al. (2014b; nomenclature), cultures and sequences are unavailable, holotype of the type species is not designated, other specimens IM I78370a, 151159a, 62200.

Monochaetinula Muthumary, Abbas & B. Sutton 1996, *Ascomycota* genera *incertae sedis*, six species, type: *M. terminaliae* (Bat. & J.L. Bezerra) Muthumary, Abbas & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Monocillium S.B. Saksena 1955, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, c. 15 species, type: *M. indicum* S.B. Saksena, asexual morph unknown, saprobes, on fungi and lichens, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Monodia Breton & Faurel 1970, *Ascomycota* genera *incertae sedis*, two species, type: *M. elegans* Breton & Faurel, coelomycetous, coprophilous and saprobes, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Monodictys S. Hughes 1958, *Dothideomycetes* genera *incertae sedis*, c. 50 species, type: *M. putredinis* (Wallr.) S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology, treated as heterogenous), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Monodidymaria U. Braun 1994, *Ascomycota* genera *incertae sedis*, five species, type: *M. canadensis* (Ellis & Everh.) U. Braun (≡ *Ramularia canadensis* Ellis & Everh.), asexual morphs hyphomycetous, terrestrial, plant pathogenic, leaf-spotting, Asia, Europe, North and South America, see Hyde et al. (2013; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequence are unavailable, lectotype of type: NY 1293230.

Monodisma Alcorn 1975, *Ascomycota* genera *incertae sedis*, one species, type: *M. fragilis* Alcorn, hyphomycetous, sexual morph unknown, pathogens, terrestrial, widespread, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, cultures available for type: IMI 73184, IMI 41189.

Monoicomyces Thaxt. 1900, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 49 species, type: *M. homalotae* Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species, Ecuador), Kirk et al. (2013; genus accepted) sequences are available only for MT004.

Monorhizina Theiss. & Syd. 1916, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *M. filicina* (Berk. & Broome) Theiss. & Syd., terrestrial, on leaves, Sri Lanka, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Monosporascus Pollack & Uecker 1974 (= *Bitrimonospora* Sivan., Talde & Tilak 1974 *fide* Species Fungorum 2017), *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *M. cannonballus* Pollack & Uecker, asexual morph unknown, thermophilic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted in *Sordariomycetes*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, available specimen and cultures for the type: BPI 71820; ATCC 26931 (unpublished), FMR6682.

Monostichella Höhn. 1916, *Ascomycota* genera *incertae sedis*, 15 species, type: *M. robergei* (Desm.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Monotosporella S. Hughes 1958, *Savoryellaceae*, *Savoryellales*, *Sordariomycetes*, probably polyphyletic, c. 10 species, type: *M. albida* G. Weber, Spaaij & Oberw., asexual morph unknown, saprobes, Asia, Australia, see Seifert et al. (2011; morphology, treated as *Pleosporales*),

Kirk et al. (2013; genus did not list), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Montagnella Speg. 1881, *Dothideomycetes* genera *incertae sedis*, nine species, type: *M. curumamuel* Speg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*), cultures and sequences are unavailable.

Montagnula Berl. 1896, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 30 species, type: *M. infernalis* (Niessl) Berl., asexual morph unknown, saprobes, terrestrial, worldwide, see Zhang et al. (2012e; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Hyde et al. (2014; taxonomy, phylogeny), Ariyawansa et al. (2014a, e; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), Wanasinghe et al. (2016a; phylogeny), Tennakoon et al. (2016b; taxonomy, phylogeny), cultures and sequences are available.

Montanelia Divakar, A. Crespo, Wedin & Essl. 2012, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *M. panniformis* (Nyl.) Divakar, A. Crespo, Wedin & Essl., asexual morph unknown, lichenized, terrestrial, worldwide, see Divakar et al. (2012; taxonomy), Leavitt et al. (2015; morphology, phylogeny), Szczepańska et al. (2015; distribution in Poland and Europe), cultures and sequences are available.

Monticola Selbmann & Egidi 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *M. elongata* Selbmann & Egidi, hyphomycetous, sexual morph unknown, rock-inhabiting, Italy, see Egidi et al. (2014; taxonomy), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c, 2017; outline), type: CBS 136206 = CCFEE 5394, cultures and sequences available.

Moorella P. Rag. Rao & D. Rao 1964, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, one species, type: *M. speciosa* P. Rag. Rao & D. Rao, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Morakotiella (C.A. Farrant & E.B.G. Jones) Sakay. 2005, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *M. salina* (C.A. Farrant & E.B.G. Jones) Sakay., asexual morph unknown, saprobes, marine, USA, see Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype of the type: IMI 297765.

Moralesia Urries 1956, *Ascomycota* genera *incertae sedis*, one species, type: *M. arundinis* Urries, sexual morph unknown, saprobes, terrestrial, Canary Islands, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Morchella Dill. ex Pers. 1794 (= *Costantinella* Matr. 1892 *fide* Healy et al. 2016; see Species Fungorum 2017 fo additional synonyms), *Morchellaceae*, *Pezizales*, *Pezizomycetes*, 40 species, type: *M. esculenta* (L.) Pers., asexual morph unknown, saprobes, terrestrial, temperate, see Isiloglu et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Clowez (2012; new species, France), Kirk et al. (2013; genus accepted), Elliott et al. (2014; new species, New South Wales), Loizides et al. (2016; new species, Cyprus), cultures and sequences are available, epitype of type: PhC10.

Morenoina Theiss. 1913 (= *Aulographella* Höhn. 1917 *fide* Species Fungorum 2017), *Aulographaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, 25 species, type: *M. antarctica* (Speg.) Theiss., asexual morph coelomycetous (acarella-like), epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, accepted in *Aulographaceae*), Wijayawardene et al. (2014c; outline, accepted in *Aulographaceae*), Tibpromma et al. (2017b; new species, phylogeny), cultures and sequences are available, epitype of type: IMI 349680.

Morinia Berl. & Bres. 1889 (= *Rinomia* Nieuwl. 1916 *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *M. pestalozzioides* Berl. & Bres., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), cultures and sequences are available.

Moriola Norman 1872, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 15 species, type: *M. descensa* Norman, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Moriolomyces Cif. & Tomas. 1953, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. descensae* Cif. & Tomas., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Moristroma A.I. Romero & Samuels 1991, *Chaetothyriomycetidae*, genera *incertae sedis*,

Eurotiomycetes, four species, type: *M. polysporum* A.I. Romero & Samuels, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Moromyces Abdel-Wahab, K.L. Pang, Nagah., Abdel-Aziz & E.B.G. Jones 2010, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *M. varius* (Chatmala & Somrith.) Abdel-Wahab, K.L. Pang, Nagah., Abdel-Aziz & E.B.G. Jones, hyphomycetous, sexual morph unknown, saprobes, marine, Egypt, Japan and Thailand, see Abdel-Wahab et al. (2010; phylogeny), Wijayawardene et al. (2012, 2017; outline), Jones et al. (2015; phylogeny, outline), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), cultures and sequences are available, holotype of the type: BBH IT152.

Morosphaeria Suetrong, Sakay., E.B.G. Jones & C.L. Schoch 2009, *Morosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *M. velatispora* (K.D. Hyde & Borse) Suetrong, Sakay., E.B.G. Jones & C.L. Schoch, asexual morph unknown, saprobes, on wood in mangrove habitats, worldwide, see Schoch et al. (2009; phylogeny), Suetrong et al. (2009, 2011a, b; phylogeny, morphology), Lumbsch and Huhndorf (2010; outline), Zainuddin et al. (2010; antimicrobial activity), Pang et al. (2011b; monograph), Sakayaroj et al. (2011b; diversity), Boonmee et al. (2012; phylogeny), Zhang et al. (2012e; phylogeny, morphology), Hyde et al (2013; phylogeny, morphology, outline), Sarma and Raghukumar, (2013; diversity), Ariyawansa et al. (2014a, e; phylogeny), Shearer et al. (2014; phylogeny, freshwater), Wijayawardene et al. (2014c; outline), Jones et al. (2015; outline, marine), Liu et al. (2015a; phylogeny), Tanaka et al. (2015, phylogeny), Singtripop et al. (2015; phylogeny), sequence data available for two species, holotype of type species IMI297770.

Morrisographium M. Morelet 1968 (= *Phragmographium* E.F. Morris 1966 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, eight species, type: *M. pilosum* M. Morelet, hyphomycetous, sexual morph unknown, saprobes, terrestrial, freshwater, widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Moserella Pöder & Scheuer 1994, *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *M. radicicola* Pöder & Scheuer, asexual morph unknown, on roots, terrestrial, Austria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), sequences are unavailable, holotype/paratype? of the type species IB 88/310.

Mouliniea C.P. Robin 1853, *Ascomycota* genera *incertae sedis*, accepted as a genus in Pezizomycotina Kirk et al. (2008) and Kirk et al. (2013) genus accepted. However, previous outlines i.e. Lumbsch and Huhndorf (2010) or Wijayawardene et al. (2012, 2017) did not list as a genus in *Pezizomycotina*.

Moutoniella Penz. & Sacc. 1902, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *M. polita* Penz. & Sacc., asexual morph unknown, saprobes, terrestrial, India, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mucispora J. Yang, Bhat & K.D. Hyde 2016, *Fuscosporellaceae*, *Fuscosporellales*, *Sordariomycetes*, one species, type: *M. pseudoseptata* J. Yang, Bhat & K.D. Hyde, hyphomycetous, saprobes, Thailand, see Yang et al. (2016c; taxonomy, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Muciturbo P.H.B. Talbot 1989, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *M. reticulatus* P.H.B. Talbot, asexual morph unknown, saprobes, terrestrial, Australia, see Kirk et al. (2008; genus accepted), Lumbsch and Huhndorf (2010; genus not accepted), Healy et al. (2013; DNA), Kirk et al. (2013; genus not accepted), Index Fungorum (2016; genus accepted), cultures and sequences are available.

Mucoharknessia Crous, R.M. Sánchez & Bianchin. 2015, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, two species, type: *M. cortaderiae* Crous, R.M. Sánchez & Bianchin, coelomycetous, sexual morph unknown, saprobes, terrestrial, Argentina, Italy, see Crous et al. (2015b; taxonomy, phylogeny), Li et al. (2016a; new species, phylogeny), Wijayawardene et al. (2017; outline), isotype and ex-isotype of the type: CBS H-21853, CBS 131032.

Mucomassaria Petr. & Cif. 1932, *Mucomassariaceae*, *Ascomycota* genera *incertae sedis*, one species, type: *M. maxima* Petr. & Cif., asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mucomycosphaerella Quaedvl. & Crous 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *M. eurypotami* (Kohlm., Volkm.-Kohlm. & O.E. Erikss.) Quaedvl. & Crous, asexual morph unknown, terrestrial, USA, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), cultures and sequences available, holotype and ex-type of type: JK5586; JK5586J.

Muellerella Hepp ex Müll. Arg. 1862 (= *Muellerellomyces* Cif. & Tomas. 1953; = *Pleothelis* M. Choisy 1949; = *Polycarpella* Theiss. & Syd. 1918; =

Sychnogonia Körb. 1855; = *Thelidiola* C.W. Dodge 1968 *fide* Species Fungorum 2017), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 18 species, type: *M. polyspora* Hepp ex Müll. Arg., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Etayo and Sancho (2008; new species, Magallanes) Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Berger and LaGreca (2014; new species, Bermuda), Muggia et al. (2015b; DNA), cultures and sequences are available but lacking for the type species.

Muellerites L. Holm 1968, *Dothidotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. juniperi* (E. Müll. & Arx) L. Holm, asexual morph unknown, saprobes, terrestrial, temperate, Switzerland, see Lumbsch and Huhndorf (2010; outline, accepted in *Dothideomycetes*), Hyde et al. (2013; outline, phylogeny), Kirk et al. (2013; genus accepted), Dai et al. (2014a; transferred to *Dothidotthiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type species.

Muelleromyces Kamat & Anahosur 1968, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *M. indicus* Kamat & Anahosur, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Muiaria Thaxt. 1914, *Laboulbeniales* genera *incertae sedis*, one species, type: *M. gracilis* Thaxt., hyphomycetous, sexual morph unknown, on insects, terrestrial, Africa, Borneo, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Muiogone Thaxt. 1914, *Ascomycota* genera *incertae sedis*, two species, type: *M. chromopteri* Thaxt., hyphomycetous, sexual morph unknown, pathogen, terrestrial, West Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Muirella R. Sprague 1959, *Ascomycota* genera *incertae sedis*, one species, type: *M. alascensis* R. Sprague, hyphomycetous, sexual morph unknown, pathogens, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Mulderomyces Crous, Jacq. Edwards & P.W.J. Taylor 2016, *Ostropales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *M. natalis* Crous, Jacq. Edwards & P.W.J. Taylor, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22609, CPC 25519.

Multilocularia Phook., Ariyaw. & K.D. Hyde 2016, *Parabambusicolaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. bambusae* Phook., Ariyaw. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Li et al. (2016a; taxonomy, phylogeny), holotype and ex-isotype of the type: MFLU 11–0216, MFLUCC 11-0180.

Multiseptospora Phook. & K.D. Hyde 2015, *Parabambusicolaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *M. thailandica* Phook. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Liu et al. (2015a; taxonomy, phylogeny), Li et al. (2016a; new species), holotype and ex-type of the type: MFLU 11–0219, MFLUCC 11–0183.

Multisporascus Marinc., M.J. Wingf. & Crous 2008, *Ascomycota* genera *incertae sedis*, one species, type: *M. proteae* Marinc., M.J. Wingf. & Crous, asexual morph unknown, saprobes, terrestrial, South Africa, see Marincowitz et al. (2008; morphology), cultures and sequences are unavailable, holotype of the type: PREM 59465.

Munkia Speg. 1886 (= *Aschersoniopsis* Henn. 1902; = *Pycnostroma* Clem. 1909; = *Shropshiria* F. Stevens 1927 *fide* Species Fungorum 2017), *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *M. martyris* Speg., asexual morph hyphomycetous, terrestrial, saprobes, South America, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequences are unavailable.

Munkiella Speg. 1885 (= *Apiotrabutia* Petr. 1929; = *Coscinopeltis* Speg. 1909 *fide* Species Fungorum 2017), *Polystomellaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *M. caa-guazu* Speg., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Munkovalsaria Aptroot 1995, *Dacampiaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *M. donacina* (Niessl) Aptroot, asexual morph hyphomycetous (lecythophora-like), saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline), Kirk et al. (2013; genus accepted), Pitt et al. (2014; from grapevine, DNA), Wijayawardene et al. (2014c; outline), cultures and sequences are available, type specimen and cultures available for the type: CBS H-14398; HVVV01.

Muraeriata Huhndorf, Greif, Mugambi & A.N. Mill. 2008, *Magnaporthaceae*, *Magnaporthales*,

Sordariomycetes, one species, type: *M. collapsa* Huhndorf, Greif, Mugambi & A.N. Mill., asexual morph unknown, saprobes, terrestrial, Austria, see Huhndorf et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available, holotype and available cultures for the type: GKM1084, SMH4553.

Murangium Seaver 1951, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *M. sequoiae* (Plowr. ex W. Phillips) Seaver, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted in *Patellariaceae*), cultures and sequences are unavailable.

Muricopeltis Viégas 1944, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. brasiliensis* Viégas, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013; did not accept in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Muriformistrickeria Q. Tian, Wanas., Camporesi & K.D. Hyde 2015, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. rubi* Q. Tian, Wanas., Camporesi & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Italy, see Tian et al. (2015; morphology, nomenclature, phylogeny), cultures and sequences are available for type species, holotype and ex-type strains of type: MFLU 15–1409; MFLUCC 15–0681 = KUMCC15-0079.

Murilentithecium Wanas., Camporesi, E.B.G. Jones & K.D. Hyde 2014, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. clematidis* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, asexual morph camarosporium-like, saprobes, terrestrial, Europe, see Wanasinghe et al. (2014a; morphology, phylogeny), cultures and sequences are available, holotype and ex-type strains of type species MFLU 14–0334; MFLUCC 14-0562 = MUCL 55405.

Muriphaeosphaeria Phukhams., Bulgakov & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *M. galatellae* Phukhams., Bulgakov & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Russia, see Phukhamsakda et al. (2015; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: MFLU 15-0087, cultures and sequences are available.

Muripulchra Z.L. Luo, H.Y. Su & K.D. Hyde 2017, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, one species, type: *M. aquatica* Z.L. Luo, H.Y. Su & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Luo et al. (2017; taxonomy, phylogeny), holotype of the type: HKAS 83980, cultures and sequences are available.

Muripulchra Z.L. Luo, H.Y. Su & K.D. Hyde 2017, *Tubeufiaceae, Tubeufiales, Dothideomycetes*, one species, type: *M. aquatica* Z.L. Luo, H.Y. Su & K.D. Hyde, sporodochial hyphomycete, sexual morph unknown, saprobes, aquatic, China, see Luo et al. (2017; morphology, phylogeny), cultures and sequences are available, type HKAS 83980.

Murispora Y. Zhang bis, J. Fourn. & K.D. Hyde 2009, *Amniculicolaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *M. rubicunda* (Niessl) Y. Zhang ter, J. Fourn. & K.D. Hyde, asexual morph phoma-like, saprobes, terrestrial and aquatic, Europe, significantly substrate stained purple, see Zhang et al. (2009a, b, 2012e; morphology, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Amniculicolaceae*), Wijayawardene et al. (2014c; outline), Wanasinghe et al. (2015; morphology, phylogeny), cultures and sequences are available.

Muroia I. Hino & Katum. 1958, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. nipponica* I. Hino & Katum., asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Lophiostomataceae*), Hyde et al. (2013; did not accept in *Lophiostomataceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Muscia Gizhitsk. 1929, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *M. catharineae* Gizhitsk., asexual morph unknown, on living stalk of *Catharinea* sp., terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Muscicola Velen. 1934, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *M. dubia* (Velen.) Svrček, asexual morph unknown, saprobes, terrestrial, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, lectotype PRM 148165.

Muscodor Worapong, Strobel & W.M. Hess 2001, *Sordariomycetes* genera *incertae sedis*, 19 species, type: *M. albus* Worapong, Strobel & W.M. Hess, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Meshram et al. (2017; new species, phylogeny), Wendt et al. (2017; accepted as a genus in *Sordariomycetes* genera *incertae sedis*), cultures and sequences are available.

Musicillium Zare & W. Gams 2007, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*,

one species, type: *M. theobromae* (Turconi) Zare & W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available, neotype (dry culture) and ex-type of the type: Herb. CBS 19864, CBS 968.72.

Muyocopron Speg. 1881 (= *Ellisiodothis* Theiss. 1914; = *Haplopeltis* Theiss. 1914; = *Peltella* Syd. & P. Syd. 1917; = *Peltopsis* Bat. 1960 *fide* Species Fungorum 2017), *Muyocopronaceae*, *Muyocopronales*, *Dothideomycetes*, five species, type: *M. corrientinum* Speg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted in *Microthyriaceae*), Hyde et al. (2013; introduced *Muyocopronaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Mapook et al. (2016c; taxonomy, phylogeny), Tibpromma et al. (2016d; new species), cultures and sequences are available, but lacking for the type.

Mycelephas R.F. Castañeda 2009 (= *Arnoldiella* R.F. Castañeda 1984 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *M. robustus* (R.F. Castañeda) R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Myceliophthora Costantin 1892 (= *Corynascus* Arx 1973 *fide* Maharachchikumbura et al. 2015b, 2016b), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *M. lutea* Costantin, sexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, nomenclature), van den Brink et al. (2015; DNA, phylogeny), cultures and sequences are available for the type species CBS 146.50, CBS 145.77 (van den Brink et al. 2015), available specimen for type: CBS H-10236.

Mycerema Bat., J.L. Bezerra & Cavalc. 1963 (see Species Fungorum 2017 for synonyms), *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *M. vochysiacearum* Bat., J.L. Bezerra & Cavalc., asexual morph plenotrichaius-like, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Phookamsak et al. (2016; new species, taxonomy), cultures and sequences are unavailable.

Mycoarachis Malloch & Cain 1970, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *M. inversa* Malloch & Cain, asexual morph hyphomycetous, terrestrial, dung, Africa and North America, see Hirooka et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Bionectriaceae*), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequences are available, holotype and ex-type of type: TRTC 662166f; CBS 517.70.

Mycoarctium K.P. Jain & Cain 1973, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, ?two species, type: *M. ciliatum* K.P. Jain & Cain, asexual morph unknown, coprophilous, terrestrial, Australia, Canary Islands, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), sequences are unavailable, holotype and ex-type of the type species? CBS 857.73, ATCC 26246, IMI 179697, TRTC 46385.

Mycoarthris Marvanová & P.J. Fisher 2002, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *M. corallina* Marvanová & P.J. Fisher, hyphomycetous, sexual morph unknown, saprobes, aquatic, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available, holotype of the type: species IMI 385400.

Mycobilimbia Rehm 1890 (= *Probilimbia* Vain. 1899; = *Weitenwebera* Opiz 1857 *fide* Species Fungorum 2017), *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, five species, type: *M. obscurata* (Sommerf.) Rehm, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Joshi and Hur (2012; Korea), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type species.

Mycoblastus Norman [nom. cons.] 1853 (= *Megalospora* A. Massal. 1852; = *Mycoblastomyces* Cif. & Tomas. 1953; = *Oedemocarpus* Trevis. 1857 *fide* Species Fungorum 2017), *Tephromelataceae*, *Lecanorales*, *Lecanoromycetes*, ten species, type: *M. sanguinarius* (L.) Norman, lichenized, worldwide, see Spribille et al. (2011; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Mycocalicium Vain. 1890 (= *Sphinctrinella* Nádv. 1942 *fide* Species Fungorum 2017), *Mycocaliciaceae*, *Mycocaliciales*, *Eurotiomycetes*, twelve species, type: *M. subtile* (Pers.) Szatala, asexual morph phialophora-like, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Mycocentrodochium K. Matsush. & Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *M. curvisporum* K. Matsush. & Matsush., asexual morph hyphomycetous, Japan, saprobes or plant pathogenic, see

Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Matsushima Fungus Collection, Kobe, 5M406.

Mycocentrospora Deighton 1972 (= *Ansatospora* A.G. Newhall 1944; = *Centrospora* Neerg. 1942 *fide* Species Fungorum 2017), *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, four species, type: *M. acerina* (R. Hartig) Deighton (≡ *Cercospora acerina* R. Hartig), hyphomycetous, terrestrial, plant pathogenic (leaves, roots) and saprobes (isolated from soil), Asia, Australia, Europe, North America, New Zealand, see Seifert et al. (2011; phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, neotype of type: Herb. Mycol. Oecon. 743 (B).

Mycochaetophora Hara & Ogawa 1931, *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *M. japonica* Hara & Ogawa, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Kobayashi et al. (2009; morphology, phylogeny), Seifert et al. (2011; phylogeny), Wijayawardene et al. (2012, 2017; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacking for the type species.

Mycochlamys S. Marchand & Cabral 1976, *Ascomycota* genera *incertae sedis*, one species, type: *M. macrospora* S. Marchand & Cabral, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Argentina, see Wijayawardene et al. (2012, 2017; outline), cultures available for type: CBS 639.76, BAFC 2663, IMI 185605, F277901.

Mycocitrus A. Møller 1901 (= *Shiraiella* Hara 1914 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *M. aurantium* Möller, asexual morph hyphomycetous, terrestrial, plant pathogen, South America, Japan, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequences are unavailable, epitype of type: BPI 631727.

Mycoclelandia Trappe & G.W. Beaton 1984 (= *Clelandia* Trappe 1979 *fide* Species Fungorum 2017), *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *M. arenacea* (Trappe) Trappe & G.W. Beaton, asexual morph unknown, hypogeous, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Trappe et al. (2010b; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: OSC:131132.

Mycocryptospora J. Reid & C. Booth 1987, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. anthostomoides* (Rehm) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Germany, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mycodidymella C.Z. Wei, Y. Harada & Katum. 1998, *Dothideomycetes* genera *incertae sedis*, one species, type: *M. aesculi* C.Z. Wei, Y. Harada & Katum., asexual morph unknown, saprobes, terrestrial, Germany, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: HHUF 22892.

Mycodiella Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *M. eucalypti* Crous, asexual morph unknown, saprobes, terrestrial, Australia, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type: CBS H-22885, CPC 29226.

Mycoënterolobium Goos 1970, *Ascomycota* genera *incertae sedis*, one species, type: *M. platysporum* Goos, sexual morph unknown, saprobes, terrestrial, Hawaii, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Karandikar et al. (2015; morphology), cultures and sequences are unavailable.

Mycofalcella Marvanová, Om-Kalth. & J. Webster 1993, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *M. calcarata* Marvanová, Om-Kalth. & J. Webster, hyphomycetous, sexual morph unknown, saprobes, freshwater, British Isles (Great Britain), Pakistan, see Baschien et al. (2013; phylogeny), Benucci et al. (2016; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype and culture available for type species IMI 351879; CCM F-10289.

Mycogalopsis Gjurašin 1925, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *M. retinospora* Gjurašin, asexual morph unknown, saprobes or plant pathogenic, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycoglaena Höhn. 1909, *Dothideomycetes* genera *incertae sedis*, 16 species, type: *M. subcoerulescens* (Nyl.) Höhn., asexual morph unknown, saprobes and plant pathogens, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycogone Link 1809 (= *Coccosporella* P. Karst. 1893 [1893-1894]; = *Mycobanche* Pers. 1818 *fide* Species Fungorum 2017), *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, 29 species, type: *M. rosea* Link, hyphomycetous, widespread, mycoparasites (mushroom), saprobes or plant pathogenic, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline),

Rossman et al. (2013b; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: CBS 132.97, CBS 260.39, CBS 488.67, CBS 527.80, CBS 563.78A, CBS 563.78B, available specimen of type: CBS H-14849, CBS H-14850.

Mycohypallage B. Sutton 1963, *Ascomycota* genera *incertae sedis*, three species, type: *M. congesta* (Berk. & Broome) B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Africa, South Asia, Russia, see Marincowitz et al. (2010; morphology, new species), Wijayawardene et al. (2016b; morphology), cultures and sequences are unavailable, holotype of the type: IM I84983.

Mycoleptodiscus Ostaz. 1968, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, c. eleven species, type: *M. terrestris* (Gerd.) Ostaz., sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Whitton et al. (2012a; new species), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Mycomalus Möller 1901, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. bambusinus* Möller, asexual morph unknown, saprobes, terrestrial, Brazil, see Tanaka et al. (2008; compare with *Ustilaginoidea*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Mycomedusiospora G.C. Carroll & Munk 1964, *Ascomycota* genera *incertae sedis*, one species, type: *M. flavida* (Rick) Carroll & Munk, asexual morph unknown, saprobes, terrestrial, Brazil, see Tanaka et al. (2008; compare with *Ustilaginoidea*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Mycomelanea Velen. 1947, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *M. ludmilae* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline, misspelled as *Mycomelaena*), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as a synonym of *Coccomyces* De Not.), cultures and sequences are unavailable.

Mycomicrothelia Keissl. 1936, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, three species, type: *M. macularis* (Hampe ex A. Massal.) Keissl., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2011b; DNA, phylogeny), Hyde et al. (2013; accepted as a genus in *Trypetheliaceae*), Wijayawardene et al. (2014c; outline), cultures available but lacking for the type species.

Myconeesia Kirschst. 1936, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *M. formosa* (Kirschst.) Kirschst., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Anthostomella* Sacc.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), cultures and sequences are unavailable.

Mycopappus Redhead & G.P. White 1985, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *M. alni* (Dearn. & Barthol.) Redhead & G.P. White, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Lee et al. (2013b; pathogens, DNA), Phookamsak et al. (2014c; phylogeny), Tian et al. (2015; accepted as a genus in *Melanommataceae*), cultures and sequences are available.

Mycopara Bat. & J.L. Bezerra 1960, *Ascomycota* genera *incertae sedis*, one species, type: *M. shawii* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, on insects, terrestrial, Africa, Borneo, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycopepon Boise 1987, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. anensis* Boise, asexual morph unknown, saprobes, terrestrial, Germany, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type.

Mycophilomyces Crous & M.J. Wingf. 2016, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. periconiae* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: CBS H-22878, CPC 27558.

Mycophycias Kohlm. & Volkm.-Kohlm. 1998, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *M. ascophylli* (Cotton) Kohlm. & Volkm.-Kohlm., saprobes, marine, cosmopolitan, see see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Verrucariaceae*), Toxopeus et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Jaklitsch et al. (2016a; classification, accepted as a genus in *Verrucariaceae*), cultures and sequences are available.

Mycoporellum Müll. Arg. 1884 (= *Keisslerellum* Werner 1944 *fide* Species Fungorum 2017),

Dothideomycetes genera *incertae sedis*, seven species, type: *M. sparsellum* (Nyl.) Müll. Arg., asexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mycoporis Clem. 1909, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *M. perexigua* (Müll. Arg.) Clem., asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideaceae*), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; transferred to *Mycosphaerellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mycoporopsis Müll. Arg. 1885, *Dothideomycetes* genera *incertae sedis*, six species, type: *M. sorenocarpa* (C. Knight) Müll. Arg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mycoporum Flot. ex Nyl. [nom. cons.] 1855 (= *Bottaria* A. Massal. 1856; = *Dictyothyrium* Grove 1932; = *Mycoporum* G. Mey. 1825; = *Pseudomycoporon* Marchand 1896 *fide* Species Fungorum 2017), *Mycoporaceae*, *Pleosporales*, *Dothideomycetes*, 25 species, type: *M. elabens* (A. Massal.) Flot. ex Nyl., asexual morph unknown, non-lichenized or facultatively lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mycoporaceae*), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Mycorhynchidium Malloch & Cain 1971, *Pyxidiophoraceae*, *Pyxidiophorales*, *Laboulbeniomycetes*, one species, type: *M. saccatum* Malloch & Cain, asexual morph unknown, coprophilous, terrestrial, Kenya, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycosphaerangium Verkley 1999, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *M. tetrasporum* (Ellis) Verkley, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycosphaerelloides Videira & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *M. madeirae* (Crous & Denman) Videira & Crous, asexual morph unknown, plant pathogens, see Videira et al. (2016; morphology, phylogeny), holotype and ex-type of type species CBS H-9898; CBS 112895 =CPC 3745.

Mycospraguea U. Braun 1993, *Ascomycota* genera *incertae sedis*, one species, type: *M. campicola* (Rogerson & R. Sprague) U. Braun, coelomycetous, terrestrial, plant pathogenic, leaf-spotting, North America, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, lectotype and isotypes of type: WSP 42832; NY 256526, 1028516.

Mycosticta Höhn. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *M. ovalis* (Pass.) Höhn., coelomycetous, sexual morph unknown, on insects, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycosylva M.C. Tulloch 1973, *Ascomycota* genera *incertae sedis*, three species, type: *M. clarkii* M.C. Tulloch, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Great Britain, Finland, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures for type: CBS 608.73, ATCC 32970, IMI 163345, type specimen of type species CBS H-14862.

Mycosymbioces J.L. Frank 2014, *Leotiomycetes* genera *incertae sedis*, one species, type: *M. mycenophila* J.L. Frank [as 'mycenaphila'], asexual morph unknown, saprobes, terrestrial, USA, see Index Fungorum (2017; taxonomy), holotype of the type: JLF2627 (OSC148294), sequences are available.

Mycothyridium Petr. 1962 (= *Xylosphaeria* G.H. Otth 1869 [1868] *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, 30 species, type: *Xylosphaeria. elliptica* G.H. Otth, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Mycotodea Kirschst. 1936, *Ascomycota genera incertae sedis*, 14 species, type: *M. heufleri* (Niessl) Kirschst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycousteria M.L. Farr 1986 (= *Drummondia* Bat. & H. Maia 1963; = *Usteria* Bat. & H. Maia 1962 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *M. morulinae* (Bat. & H. Maia) M.L. Farr, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Mycovellosiella Rangel 1917 (= *Vellosiella* Rangel 1915; = *Walkeromyces* Thaung 1976 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *M. cajani* Henn., hyphomycetous, sexual morph unknown, plant pathogenic, see Videira et al. (2017; morphology, phylogeny, and designation of neotype), cultures and sequences are available.

Mycowinteria Sherwood 1986 (= *Trematosphaeria* subgen. *Winteria* Rehm 1881; = *Winteria* (Rehm) Sacc. 1883 *fide* Species Fungorum 2017), *Protothelenellaceae*, *Lecanoromycetes* families *incertae sedis*, three species, type: *M. anodonta* (Nyl.) Sherwood & Boise, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Myelochroa (Asahina) Elix & Hale 1987 (= *Parmelia* subsect. *Myelochroa* Asahina 1952 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 30 species, type: *M. aurulenta* (Tuck.) Elix & Hale, lichenized, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Myeloconis P.M. McCarthy & Elix 1996, *Porinaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *M. fecunda* P.M. McCarthy & Elix, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Nelsen et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, cultures available for the type: MPN3C, MPN759, holotype of type: E, Coppins 5131.

Myelorrhiza Verdon & Elix 1986, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *M. antrea* Verdon & Elix, asexual morph unknown, lichenized, terrestrial, Australia, see Lumbsch et al. (2010b; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures are available but lacking for the type species.

Myelosperma Syd. & P. Syd. 1915, *Myelospermataceae*, *Xylariales*, *Sordariomycetes*, four species, type: *M. tumidum* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Myiocoprula Petr. 1955, *Ascomycota* genera *incertae sedis*, two species, type: *M. gregaria* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myochroidea Printzen, T. Sprib. & Tønsberg 2008, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, four species, type: *M. rufofusca* (Anzi) Printzen, T. Sprib. & Tønsberg, asexual morph unknown, lichenized, terrestrial, worldwide, see Printzen et al. (2008; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Myotisia Kubátová, M. Kolařík & Hubka 2017, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *M. cremea* Kubátová, M. Kolařík & Hubka, asexual morph unknown, on bat dropping, Czech Republic, see Crous et al. (2017; taxonomy), holotype: PRM 935803, cultures and sequences are available.

Myriangiella Zimm. 1902, *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, five species, type: *M. orbicularis* Zimm., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Myriangiopsis Henn. 1902 (= *Ascomycetella* Sacc. 1889 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, two species, type: *M. sulfurea* (G. Winter) Henn., asexual morph unknown, saprobes, terrestrial, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type species.

Myriangium Mont. & Berk. 1845 (= *Phymatodiscus* Speg. 1919 [1918]; = *Phymatosphaeria* Pass. 1875; = *Pyrenotheca* Pat. 1886 *fide* Species Fungorum 2017), *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *M. duriaei* Mont. & Berk., asexual morph unknown, saprobes, terrestrial, Algeria, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Dissanayake et al. (2014; morphology), Wijayawardene et al. (2014c; outline), cultures and sequences are available, holotype of the type species NL 8414.

Myriellina Höhn. 1915, *Ascomycota* genera *incertae sedis*, two species, type: *M. cydoniae* (Desm.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Papua New Guinea, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Pl. crypt. Fr. nr. 79.

Myriochapsa M. Cáceres, Lücking & Lumbsch 2013, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *M. psoromica* (M. Cáceres, Santos de Jesus & Santos Vieira) M. Cáceres, Lücking & Lumbsch, asexual

morph unknown, lichenized, terrestrial, worldwide, see Parnmen et al. (2013; taxonomy), Lumbsch et al. (2014a, b; accepted in *Graphidaceae*), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of the type: ASE, Cáceres 7595 (holotype of *Chapsa psoromica* M. Cáceres, L.S. de Jesus & T.S. Vieira), cultures available for the type: CHAR106 (*fide* Lumbsch et al. 2014a, b).

Myrioconium Syd. & P. Syd. 1912, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, c. ten species, type: *M. scirpi* Syd. & P. Syd., hyphomycetous, sexual morph unknown, in soil, saprobes, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Myriodiscus Boedijn 1935 (= *Ascotremellopsis* Teng & S.H. Ou ex S.H. Ou 1936 *fide* Species Fungorum 2017), *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, one species, type: *M. sparassoides* Boedijn, asexual morph unknown, saprobes on bamboo culms, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myriodontium Samson & Polon. 1978, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *M. keratinophilum* Samson & Polon., sexual morph unknown, human pathogen, saprobes, Spain, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Man et al. (2015; DNA), cultures and sequences are available, available specimen and cultures for the type: CBS H-7385; S7-P-3-16 (*fide* Man et al. 2015).

Myriogenospora G.F. Atk. 1894, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. paspali* G.F. Atk., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Myriolecis Clem. 1909, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, 31 species, type: *M. sambuci* (Pers.) Clem., lichenized, worldwide, see Śliwa et al. (2012; phylogeny), Zhao et al. (2016c; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Myrionora R.C. Harris 1988, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *M. albidula* (Willey) R.C. Harris, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Myriophacidium Sherwood 1974, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, six species, type: *M. aphyophyllicum* Sherwood, asexual morph unknown, saprobes, terrestrial, worldwide, see Hou and Piepenbring (2009a, b; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of the type: CUP 53225, isotype of the type: OSC 34178.

Myriosclerotinia N.F. Buchw. 1947 (= *Myrioconium* Syd. & P. Syd. 1912 *fide* Jaklitsch et al. 2016a), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *M. scirpicola* (Rehm) N.F. Buchw., asexual morph unknown, on roots, terrestrial, America, Europe, see Lumbsch and Huhndorf (2010; outline), Andrew et al. (2012; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Myriospora Nägeli ex Uloth 1861 (= *Myriospora* Nägeli 1853 *fide* Species Fungorum 2017), *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, nine species, type: *M. rufescens* (Ach.) Nägeli, lichenized, Europe, USA, Africa, see Arcadia and Knudsen (2012; phylogeny), Gueidan et al. (2014c; phylogeny), Westberg et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Myriostigma Kremp. 1874, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, seven species, type: *M. candidum* Kremp., lichenized, see Frisch et al. (2014; phylogeny), Ertz et al. (2015b, new combination), Jagadeesh Ram and Sinha (2016; identification key), Lücking et al. (2017a; classification), sequences are available.

Myriostigmella G. Arnaud 1952 (= *Myriostigma* G. Arnaud 1925 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *M. guatteriae* (G. Arnaud) G. Arnaud, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type species.

Myriotrema Fée 1825 (= *Coscinedia* A. Massal. 1860 [1859-1860] *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 54 species, type: *M. olivaceum* Fée, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Mangold et al. (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Sipman et al. (2012; key, Costa Rica), Rivas Plata et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2014, 2017a; phylogeny, classification), cultures and sequences are available.

Myrmaeciella Lindau 1897 (= *Myrmaecium* Sacc. 1880 *fide* Species Fungorum 2017), *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. endoleuca* (Sacc.) Lindau, asexual morph unknown, saprobes or fungicolous, terrestrial, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Jaklitsch and Voglmayr (2011; taxonomic notes),

Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type species.

Myrmaecium Nitschke ex Fuckel 1870, *Valsariaceae*, *Valsariales*, *Dothideomycetes*, two species, type: *M. rubricosum* (Fr.) Fuckel asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2015; taxonomy, and phylogeny), cultures and sequences are available, lectotype of the type: L9118162, cultures available for the type: CBS 139067.

Myrmecomyces Jouvenaz & Kimbr. 1991, *Ascomycota* genera *incertae sedis*, two species, type: *M. annellisiae* Jouvenaz & Kimbr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, Argentina, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of type: FLAS 55591.

Myrmecridium Arzanlou, W. Gams & Crous 2007, *Myrmecridiaceae*, *Myrmecridiales*, *Sordariomycetes*, eleven species, type: *M. schulzeri* (Sacc.) Arzanlou, W. Gams & Crous, sexual morph unknown, saprobes, terrestrial, worldwide, see Crous et al. (2012e, 2015d, 2016a; new species, phylogeny), Jie et al. (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline, accepted in *Hypocreomycetidae*), Réblová et al. (2016a; new species, phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available for the type: CBS 134.68 = ATCC 16310.

Myrotheciastrum Abbas & B. Sutton 1988, *Ascomycota* genera *incertae sedis*, one species, type: *M. salvadorae* Abbas & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Pakistan, see Wijayawardene et al. (2012, 2016b, 2017; morphology, outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: IMI 139985i.

Myrothecium Tode 1790 (= *Godroniella* P. Karst. 1884; = *Myrotheciella* Speg. 1911; = *Myxormia* Berk. & Broome 1850; = *Starkeyomyces* Agnihothr. 1956 *fide* Species Fungorum 2017), *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, 83 species, type: *M. inundatum* Tode, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014c; notes), Maharachchikumbura et al. (2015a, b; outline), Chen et al. (2016, b, c; review, phylogeny), Dai et al. (2017; morphology, phylogeny, new species), Lombard et al. (2016; phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available but lacking for type, epitype of type: CBS H-14898.

Myrtapenidiella Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *M. tenuiramis* (Crous & Summerell) Quaedvl. & Crous, hyphomycetous, sexual morph unknown, pathogens, saprobes, terrestrial, Australia, Thailand, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; outline), Crous et al. (2015d, 2017; new species, phylogeny), sequence data available, holotype and ex-type of the type species CBS H-20253; CPC 13692.

Mystrosporiella Munjal & Kulshr. 1969, *Ascomycota* genera *incertae sedis*, two species, type: *M. litseae* Munjal & Kulshr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myrtacremonium Crous 2017, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *M. eucalypti* Crous, hyphomycetous, sexual morph unknown, saprobes, Australia, see Crous et al. (2017; taxonomy), holotype: CBS H-23123, cultures and sequences are available.

Mytilinidion Duby 1861 (= *Murashkinskija* Petr. 1928 *fide* Species Fungorum 2017), *Mytilinidiaceae*, *Mytilinidiales*, *Dothideomycetes*, twelve species, type: *M. aggregatum* (DC.) Duby, asexual morph septonema-like, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mytilinidiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Mytilodiscus Kropp & S.E. Carp. 1984, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *M. alnicola* Kropp & S.E. Carp., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of the type: OSC 41,244.

Mytilostoma P. Karst. 1879, *Dothideomycetes* genera *incertae sedis*, two species, type: *M. deflectens* P. Karst., asexual morph unknown, saprobes, terrestrial, Finland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Myxocephala G. Weber, Spaaij & Oberw. 1989, *Sordariomycetes* genera *incertae sedis*, one species, type: *M. setosa* (Berk. & M.A. Curtis) S. Hughes, hyphomycetous, sexual morph unknown, saprobes, Germany, see Kirk et al. (2008, 2013; genus accepted), cultures and sequences are available.

Myxocyclus Riess 1852, *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *M. confluens* Riess, coelomycetous, sexual morph *Splanchnonema sensu lato*, saprobes, terrestrial, USA, Canada, Japan, see Pastirčáková and Pastirčák (2010; morphology), Wijayawardene et al. (2016b, 2017; morphology, outline), cultures and sequences are unavailable, holotype of the type species IMI 180178.

Myxoparaphysella Caball. 1941, *Ascomycota* genera *incertae sedis*, two species, type: *M. cocoës* Caball., coelomycetous, sexual morph unknown, saprobes, terrestrial, Spain, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myxophora Döbbeler & Poelt 1978, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, seven species, type: *M. amerospora* Döbbeler & Poelt, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Myxospora L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *M. masonii* (M.C. Tulloch) L. Lombard & Crous, hyphomycetous, sexual morph unknown, from forest soil, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), ex-type of the type: CBS 174.73.

Myxosporella Sacc. 1881, *Ascomycota* genera *incertae sedis*, one species, type: *M. miniata* Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myxosporidiella Negru 1960, *Ascomycota* genera *incertae sedis*, one species, type: *M. fritillariae* Negru, coelomycetous, sexual morph unknown, saprobes, terrestrial, Romania, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myxostomellina Syd. 1931, *Ascomycota* genera *incertae sedis*, one species, type: *M. apoensis* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myxothyriopsis Bat. & A.F. Vital 1956 (= *Plenotrichella* Bat. & A.F. Vital 1959; = *Stigmopeltopsis* Peres 1961 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *M. astronifolia* Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myxothyrium Bubák & Kabát 1915, *Ascomycota* genera *incertae sedis*, one species, type: *M. leptideum* (Fr.) Bubák & Kabát, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Myxotrichum Kunze 1823 (= *Actinospira* Corda 1854; = *Campsotrichum* Ehrenb. 1818; = *Eidamella* Matr. & Dassonv. 1901; = *Myxotrichella* (Sacc.) Sacc. 1899; = *Myxotrichum* subgen. *Myxotrichella* Sacc. 1892; = *Oncidium* Nees 1823; = *Toxotrichum* G.F. Orr & Kuehn 1964 *fide* Species Fungorum 2017), *Myxotrichaceae*, *Leotiomycetes* families *incertae sedis*, twelve species, type: *M. chartarum* Kunze, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Nadsonia Sydow 1912 (= *Schizoblastosporion* Cif. 1930; = *Guilliermondia* Nadson & Konok. 1911 *fide* Species Fungorum 2017), ?*Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, four species, type: *N. fulvescens* (Nadson & Konokotina) Syd., asexual reproduction is by budding, saprophytic, on exudates of various trees, soil, peat, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kurtzman and Robnett (2014; DNA, taxonomy), sequences are available.

Nadsoniella Issatsch. 1914, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *N. nigra* Issatsch., hyphomycetous, sexual morph unknown, saprobes, marine, USSR, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Nadvornikia Tibell 1984 (= *Stephanophoron* Nádv. 1942 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *N. hawaiiensis* (Tuck.) Tibell, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; DNA, phylogeny), Lumbsch et al. (2014a, b; accepted in *Graphidaceae*), Lücking et al. (2017a; classification), cultures and sequences are available.

Naemacyclus Fuckel 1874 (= *Lasiostictis* Sacc. & Berl. ex Sacc. 1889; = *Lasiostictis* Sacc. & Berl. 1885 [1884-1885] *fide* Species Fungorum 2017), *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, six species, type: *N. pinastri* Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Helotiales*), Kirk et al. (2013; genus

accepted), cultures and sequences are available but lacking for the type species.

Naemosphaera P. Karst. 1888 (= *Naemosphaera* (Sacc.) Sacc. 1892; = *Sphaeronaema* subgen. *Naemosphaera* Sacc. 1884 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *N. rudis* P. Karst., coelomycetous, sexual morph unknown, saprobes, marine, Finland, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Naemosphaerella Höhn. 1923, *Ascomycota* genera *incertae sedis*, two species, type: *N. ceratophora* (Speg.) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, marine, Brazil, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Naetrocymbe Körb. 1865 (= *Santessoniolichen* Tomas. & Cif. 1952; = *Santessoniomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Naetrocymbaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *N. fuliginea* Körb., asexual morph unknown, epiphytes, terrestrial, worldwide, see Alstrup et al. (2009; new species, USA), Knudsen and Lendemer (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Minter et al. (2015; new species), cultures and sequences are unavailable.

Naevala B. Hein 1976 (= *Naevia* Fr. 1849; = *Ocellariella* Petr. 1947 *fide* Species Fungorum 2017), *Calloriaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *N. minutissima* (Auersw.) B. Hein, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: CBS 115920, CBS 115003 (Verkley and van Kempen unpub.), available specimen for type: CBS H-15904.

Naeviella Clem. 1909, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *N. paradoxa* (Rehm) Clem., asexual morph unknown, saprobes, terrestrial, Europe, see Chlebicki (2009b; endophytes, Poland), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Naeviopsis B. Hein 1976, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *N. epilobii* (P. Karst.) B. Hein, asexual morph unknown, saprobes, terrestrial, Europe, see Raitviir (2008; Magadan), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nagrajia R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *N. havanensis* R.F. Castañeda, coelomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: INIFAT C91/10-3.

Nagrajomyces Melnik 1984, *Ascomycota* genera *incertae sedis*, one species, type: *N. dictyosporus* Melnik, coelomycetous, sexual morph unknown, saprobes, terrestrial, Russia, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Naïs Kohlm. 1962, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *N. inornata* Kohlm., asexual morph unknown, marine, freshwater, on wood, worldwide, see Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Nakaseomyces Kurtzman 2003, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, seven species, type: *N. delphensis* (van der Walt & Tscheuschner) Kurtzman, asexual reproduction is by multilateral budding, saprophytic, but several of the species are important human pathogens, on exudate of oaks, figs, human pathogens, worldwide, see Lumbsch and Huhndorf (2010; outline), Limtong et al. (2011; asexual morph as *Candida* sp.), sequences are available.

Nakataea Hara 1939 (= *Magnaporthe* R.A. Krause & R.K. Webster 1972 *fide* Zhang et al. 2016d), *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, c. ten species, type: *N. oryzae* (Catt.) J. Luo & N. Zhang, sexual morph formerly known in *Magnaporthe*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, sexual morph), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Nakatopsis Whitton, McKenzie & K.D. Hyde 2001, *Ascomycota* genera *incertae sedis*, two species, type: *N. malaysiana* Whitton, McKenzie & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: HKU (M) 5093.

Nakazawaea Y. Yamada, Maeda & Mikata 1994, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *N. holstii* (Wickerham) Y. Yamada, K. Maeda & Mikata, asexual reproduction is by multilateral budding, saprophytic, on beetle larvae tunnels in spruce and pine trees, alpechin, cider, grapes, sauerkraut, silage, mastitis milk, embalmed human corpse, human faeces, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kaewwichian and

Limtong (2014; new species, DNA), Kurtzman and Robnett (2014; taxonomy), sequences are available.

Nalanthamala Subram. 1956 (= *Rubrinectria* Rossman & Samuels 1999 *fide* Rossman et al. 2013b), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *N. madreeya* Subram., sexual morph formerly known in *Rubrinectria*, saprobes, plant pathogens, terrestrial, worldwide, see Ligoxigakis et al. (2013; Greece), Hong et al. (2013; selective medium), Severn-Ellis et al. (2012; South Africa), Li et al. (2013; indoor, phylogeny), Peršoh et al. (2011; EcoChip), Rossman et al. (2013b; acceptance of genus), Su et al. (2013; secondary metabolite), Summerbell et al. (2011; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, but lacking for type.

Nannfeldtia Petr. 1947, *Leptopeltidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *N. atra* Petr., asexual morph unknown, saprobes, terrestrial, Austria, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Nannizziopsis Currah 1985, *Nannizziopsidaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *N. vriesii* (Apinis) Currah, asexual morph hyphomycetous, saprobes, animal pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stchigel et al. (2013; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), type specimen and ex-type of the type: CBS H-6714; IMI 149994.

Nanomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *N. fijianus* Thaxt., asexual morph unknown, biotrophic, terrestrial, Pacific, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nanoschema B. Sutton 1980, *Ascomycota* genera *incertae sedis*, one species, type: *N. elaeocarpi* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, British Solomon Islands, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type species IMI 187436.

Nanoscypha Denison 1972, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, ten species, type: *N. tetraspora* (Seaver) Denison, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Nanostictis M.S. Christ. 1954, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *N. peltigerae* M.S. Christ., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Etayo and Sancho (2008; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Naothyrsium Bat. 1960, *Ascomycota* genera *incertae sedis*, one species, type: *N. splendidum* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Narasimhella Thirum. & P.N. Mathur 1966, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *N. poonensis* Thirum. & P.N. Mathur, asexual morph unknown, from bee hive, Venezuela, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), sequences and culture unavailable.

Natantiella Réblová 2009, *Sordariomycetes* genera *incertae sedis*, one species, type: *N. ligneola* (Berk. & Broome) Réblová, asexual morph unknown, saprobes, terrestrial, Europe, see Réblová and Štěpánek (2009; morphology), Maharachchikumbura et al. (2016b; outline), holotype and culture of the type species K 84426 (holotype of *Sphaeria ligneola*); CBS 123470.

Natantispora J. Campb., J.L. Anderson & Shearer 2003, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three species, type: *N. retorquens* (Shearer & J.L. Crane) J. Campb., J.L. Anderson & Shearer, marine, freshwater, see Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; outline, phylogeny), Liu et al. (2015a; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Natarajania Pratibha & Bhat 2006, *Stilbosporaceae*, *Diaporthales incertae sedis*, *Sordariomycetes*, one species, type: *N. indica* Pratibha & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Shenoy et al. (2010; phylogeny), Seifert et al. (2011; morphology), Crous et al. (2012f; phylogeny, familial position unresolved), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Natipusilla A. Ferrer, A.N. Mill. & Shearer 2011, *Natipusillaceae*, *Natipusillales*, *Dothideomycetes*, four species, type: *N. decorospora* A. Ferrer, A.N. Mill. & Shearer, saprobes, on submerged wood, Central and South America, see Raja et al. (2012; placed in *Natipusillaceae*), Hyde et al. (2013; accepted as a genus in *Natipusillaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available, holotype of type: AF236-1 (ILL 86249).

Naumovela Kravtzev 1955, *Sordariomycetes* genera *incertae sedis*, two species, type: need typification, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Naumovozyma Kurtzman 2008 (= *Naumovia* Kurtzman 2003 *fide* Species Fungorum 2017), *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *N. dairenensis* (H. Naganiishi) Kurtzman, asexual reproduction is by multilateral budding, saprophytic, soil, spoiled milk, ensiled maize, fermented vegetables, dried fruit, cecum of baboon, worldwide, see Lumbsch and Huhndorf (2010; outline), sequences are available.

Nautosphaeria E.B.G. Jones 1964, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *N. cristaminuta* E.B.G. Jones, asexual morph unknown, marine, on submerged wood, temperate, tropical, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015; outline), cultures and sequences are available.

Navicella Fabre 1879, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *N. julii* Fabre, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014f; transferred to *Melanommataceae*), Wijayawardene et al. (2014c; outline), Tian et al. (2015; accepted as a genus in *Melanommataceae*), cultures and sequences are unavailable.

Nawawia Marvanová 1980, *Chaetosphaeriales* genera *incertae sedis*, type: *N. filiformis* (Nawawi) Marvanová, hyphomycetous, sexual morph unknown, saprobes, aquatic, worldwide, see Crous et al. (2009b; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Goh et al. (2014a; new species), cultures and sequences are available but lacking for the type.

Nebularia P.M. Jørg. 2014, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *N. incrassata* (P.M. Jørg.) P.M. Jørg., lichenized, Ecuador, see Ekman et al. (2014; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Nectria (Fr.) Fr. 1849 (= *Tubercularia* Tode 1790 *fide* Rossman et al. 2013b; see Species Fungorum 2017 for additional synonyms), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, around 1000 species, type: *N. cinnabarina* (Tode) Fr., saprobes, pathogens, worldwide, see Lumbsch and Huhndorf (2010; outline), Hirooka et al. (2011; monograph), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Lombard et al. (2015b; phylogeny), cultures and sequences are available, epitype and ex-epitype of the type: BPI 879981; CBS 125165 = AR 4477 = CLL 7152.

Nectriella Nitschke ex Fuckel 1870 (= *Notarisiella* Speg. 1909; = *Stylonectriella* Höhn. 1915 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, 74 species, type: *N. fuckelii* Nitschke ex Fuckel, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Nectriopsis Maire 1911 (= *Dasyphthora* Clem. 1909; = *Peloronectriella* Yoshim. Doi 1968 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 70 species, type: *N. violacea* (J.C. Schmidt ex Fr.) Maire, asexual morph acremonium-like, saprobes, fungicolous, lichenicolous, terrestrial, worldwide, see Etayo (2010a; new species), Lumbsch and Huhndorf (2010; outline), Luo and Zhuang (2010; new species), Brackel and Zimmermann (2012; new species), Whitton et al. (2012b; new species), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Kondratyuk et al. (2016a; new species), Zare and Gams (2016; phylogeny), cultures and sequences are available.

Neelakesa Udaiyan & Hosag. 1992, *Pseudeurotiaceae*, *Leotiomycetes* families *incertae sedis*, three species, type: *N. lignicola* Udaiyan & V.S. Hosag., saprobes, submerged wood, freshwater, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nemania Gray 1821 (= *Geniculosporium* Chesters & Greenh. 1964; = *Gamosphaera* Dumort. 1822; = *Geniculisynnema* Okane & Nakagiri 2007 *fide* Réblová et al. 2016c; Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, 68 species, type: *N. serpens* (Pers.) Gray, asexual morph formerly named in *Geniculosporium*, saprobes or endophytes, terrestrial or marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Nematococcomyces C.L. Hou, M. Piepenbr. & Oberw. 2004, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, nine species, type: *N. rhododendri* C.L. Hou, M. Piepenbr. & Oberw., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Tian et al. (2013; new species, China, phylogeny), cultures and sequences are available, holotype and culture available for type: HMAS (112); voucher HOU 469A.

Nematogonum Desm. 1834 (= *Botryocladium* Preuss 1851 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *N. aurantiacum* Desm., hyphomycetous, sexual morph unknown, mycoparasites, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nematographium Goid. 1935, *Ascomycota* genera *incertae sedis*, one species, type: *N. hippotrichoides* (Lindau) Goid., hyphomycetous, sexual morph unknown,

saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, type specimen of type species B herb. Lindau.

Nematostoma Syd. & P. Syd. 1914 (= *Ceratosperma* Speg. 1918; = *Dimeriellopsis* F. Stevens 1927 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, 13 species, type: *N. artemisiae* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Nematothecium Syd. & P. Syd. 1912 (= *Ophiogene* Petr. 1931 *fide* Species Fungorum 2017), *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *N. vinosum* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Nemozythiella Höhn. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *N. lonicerae* (Died.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neoacanthostigma Boonmee, Bhat & K.D. Hyde 2014, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, three species, type: *N. fusiforme* Boonmee, Bhat & K.D. Hyde, asexual morph hyphomycetous, saprobes, terrestrial, worldwide, Boonmee et al. (2014b; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), Lu et al. (2017b, new species, phylogeny), YZ cultures and sequences are available, holotype and available ex-type cultures for the type: MFLU 11-1146; MFLUCC 11–0510 = BCC 52383 = ICMP 20073.

Neoalpakesa Punith. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *N. poae* Punith., coelomycetous, sexual morph unknown, saprobes, terrestrial, UK, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: IMI 252188.

Neoanthostomella D.Q. Dai & K.D. Hyde 2016, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *N. pseudostromatica* D.Q. Dai & K.D. Hyde, lichenicolous, asexual morph unknown, saprobes, terrestrial, Thailand, see Dai et al. (2017; phylogeny, morphology, sexual morph), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), holotype and ex-type of type species MFLU 15–1190; MFLUCC 11–0610.

Neoaquastroma Wanas., E.B.G. Jones & K.D. Hyde 2017, *Parabambusicolaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. guttulatum* Wanas. E.B.G. Jones & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Wanasinghe et al. (2017a; taxonomy, phylogeny), holotype of the type: MFLU 16-2524, cultures and sequences are available.

Neoarachnotheca Ulfig, Cano & Guarro 1997, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *N. keratinophila* Ulfig, Cano & Guarro, asexual morph unknown, saprobes, on marine and river sediments, Spain, see Lumbsch and Huhndorf et al. (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: IMI 351982.

Neoarbuscula B. Sutton 1983 (= *Arbuscula* Bat. & Peres 1965; = *Arbusculidium* B. Sutton 1982 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *N. eugeniae* (Bat. & Peres) B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, specimens available for the type: IMI 159330, 192110, 198635, 199104, 227705a, 227705b, 296847.

Neoascochyta Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *N. exitialis* (Morini) Q. Chen & L. Cai, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Crous et al. (2016a, b; new species, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Neoascotaiwania Hern.-Restr. et al. 2017, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, two species, type: *A. terrestris* Hern.-Restr., J. Mena & Guarro, asexual morph hyphomycetous, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Neoastrosphaeriella J.K. Liu, E.B.G. Jones & K.D. Hyde 2011, *Aigialaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. krabiensis* J.K. Liu, E.B.G. Jones & K.D. Hyde, asexual morph unknown, saprobes, Thailand, see Liu et al. (2011b; morphology, DNA, phylogeny), Hyde et al. (2013; accepted as a genus in *Aigialaceae*), Wijayawardene et al. (2014c; outline), holotype: MFLU 11-1148.

Neobambusicola Crous & M.J. Wingf. 2014, *Sulcatisporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. strelitziae* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2014d; morphology, DNA), Tanaka et al. (2015; phylogeny),

cultures and sequences are available, holotype and ex-type of the type species CBS H-22000; CPC 24182 = CBS 138869.

Neobarclaya Kuntze 1898 (= *Barklayella* Sacc. 1892; = *Neobarclaya* Sacc. 1899 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *N. primaria* (Ellis & Everh.) Kuntze, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neobarya Lowen 1986 (= *Barya* Fuckel 1864; = *Baryella* Rauschert 1988 *fide* Species Fungorum 2017), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, ten species, type: *N. parasitica* (Fuckel) Lowen, asexual morph acremonium-like, mycoparasites, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lawrey et al. (2015; lichenicolous, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), sequence available for type species; GenBank Number: KP899626.

Neobroomella Petr. 1947, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *N. ciliata* Petr., asexual morph unknown, saprobes, terrestrial, Syria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Senanayake et al. (2015; accepted in *Phlogicylindriaceae*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Neobulgaria Petr. 1921 (= *Evulla* Kavina 1939 *fide* Species Fungorum 2017), *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, eleven species, type: *N. pura* (Pers.) Petr., asexual morph hyphomycetous (phialophora-like), saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Johnston et al. (2010; new species, New Zealand, asexual morph, DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available, available specimen and cultures for type: CBS H-15111; AFTOL-ID 1259 (Schoch unpub.).

Neocamarosporium Crous & M.J. Wingf. 2014, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *N. goegapense* Crous & M.J. Wingf., coelomycetous, saprobes, terrestrial, worldwide, see Crous et al. (2014d; taxonomy, phylogeny), Wijayawardene et al. (2016b; outline, taxonomy), Ariyawansa et al. (2015c; phylogeny, new combination), cultures and sequences are available, holotype and ex-type strains of the type species CBS H-21722; CPC 23676.

Neocarpenteles Udagawa & Uchiy. 2002, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, one species, type: *N. acanthosporum* (Udagawa & Takada) Udagawa & Uchiy., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available, holotype and cultures available for the type: NHL 22462; CBS 447.65, CBS 558.71.

Neocatapyrenium H. Harada 1993, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, four species, type: *N. cladonioideum* (Vain.) H. Harada, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available but lacking for the type species, holotype of type species TUR (142).

Neocatenulostroma Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *N. microsporum* (Joanne E. Taylor & Crous) Quaedvl. & Crous, hyphomycetous, pathogens, saprobes, terrestrial, Sweden, Germany, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, nomenclature), holotype and ex-type of the type species PREM 56207a; CPC 1960.

Neoceratosperma Crous & Cheew. 2014, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *N. eucalypti* Crous & Cheew., hyphomycetous, sexual morph mycosphaerella-like, pathogens or associated with leaf spots, Brazil, China, Thailand, see Crous et al. (2014c; morphology, phylogeny), Wijayawardene et al. (2014c, 2017; outline), Guatimosim et al. (2016a, b; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type species CBS H-21712; CPC 23465.

Neocercospora M. Bakhshi, Arzanlou, Babai-ahari & Crous 2015, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. ammicola* M. Bakhshi, Arzanlou, Babai-ahari & Crous, hyphomycetous, sexual morph unknown, plant pathogenic, see Bakhshi et al. (2015a, b; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of type: IRAN 16461 F; CCTU 1186 = CBS 136450.

Neochaetosphaerella Lar. N. Vassiljeva, S.L. Stephenson & Chernyshev 2012, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *N. thaxteriospora* Lar. N. Vassiljeva, S.L. Stephenson & Chernyshev, asexual morphs unknown, saprobes, terrestrial, southern USA, see Vasilyeva et al. (2012; morphology), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: VLA P-2489.

Neochaetospora B. Sutton & Sankaran 1991 (= *Chaetospora* Faurel & Schotter 1965 [1964] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *N. quezelii* (Faurel & Schotter) B. Sutton &

Sankaran, coelomycetous, sexual morph unknown, coprophilous, terrestrial, Sahara, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neocladophialophora Crous & R.K. Schumach. 2014, *Eurotiomycetes* genera *incertae sedis*, one species, type: *N. quercina* Crous & R.K. Schumach., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Germany, see Crous et al. (2014c; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of type: CBS H-22003; CPC 24426.

Neoclaviceps J.F. White, Bills, S.C. Alderman & Spatafora 2001, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *N. monostipa* J.F. White, Bills, S.C. Alderman & Spatafora, asexual morph unknown, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, cultures available for the type species INBio 6-141, holotype: RUTPP INBio 6-141.

Neococcomyces Y.R. Lin, C.T. Xiang & Z.Z. Li 1999, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, three species, type: *N. rhododendri* Y.R. Lin, C.T. Xiang & Z.Z. Li, asexual morph unknown, saprobes, terrestrial, China, see Hou and Piepenbring (2009a, b; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: AAU [Anhui] AAUFP 67.

Neocoleroa Petr. 1934, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *N. sibirica* Petr., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Farkas (2010; new species), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Neocordana Hern.-Restr. & Crous 2015, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, five species, type: *N. musae* (Zimm.) M. Hern.-Rest. & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Hernández-Restrepo et al. (2015; taxonomy, phylogeny), Crous et al. (2016a, b; new species, phylogeny), Crous et al. (2017; new species), Wijayawardene et al. (2017; outline), neotype and ex-neotype of the type: CBS H-22054, CPC 18127.

Neocordyceps Kobayasi 1984, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *N. kohyasanensis* Kobayasi, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Neocosmospora E.F. Sm. 1899, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 25 species, type: *N. vasinfecta* E.F. Sm., asexual morph hyphomycetous (acremonium-like), saprobes, pathogens on human, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Nalim et al. (2011; new species), Hirooka et al. (2012; new species), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; new species, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Neocrinula Crous 2016, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *N. xanthorrhoeae* Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Crous et al. (2016a; new species, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22859, CPC 29474.

Neocryptospora Petr. 1959, *Sordariomycetes* genera *incertae sedis*, one species, type: *N. rickii* Petr., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Neocucurbitaria Wanas., E.B.G. Jones & K.D. Hyde 2017, *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *N. unguis-hominis* (Punith. & M.P. English) Wanas., E.B.G. Jones & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Wanasinghe et al. (2017b; taxonomy, phylogeny), holotype of the type: MFLU 16–2710, cultures and sequences are available.

Neocudoniella S. Imai 1941, *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *N. jezoënsis* (S. Imai) S. Imai, asexual morph unknown, saprobes, terrestrial, Japan, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Neocurreya Thambug. & K.D. Hyde 2015, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. austroafricana* (Marinc., M.J. Wingf. & Crous) Thambugala & K.D. Hyde, asexual morph unknown, saprobes, cosmopolitan, see Thambugala et al. (2015b; taxonomy), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora*), Wijayawardene et al. (2016b; taxonomy), cultures and sequences are available.

Neocylindroseptoria Thambug. & K.D. Hyde 2014, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, one species, type: *N. pistaciae* (Quaedvl., Verkley & Crous) Thambug. & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Spain, see Thambugala et al. (2014a; phylogeny), cultures and sequences are available, holotype and ex-type of type: CBS H-21301; CBS 471.69.

Neodactylaria Guevara-Suarez, Deanna A. Sutton, Wiederhold & Gené 2017, *Dothideomycetes* genera *incertae sedis*, one species, type: *N. obpyriformis* Guevara-Suarez, Deanna A. Sutton, Wiederhold & Gené, hyphomycetous, sexual morph unknown, from human bronchoalveolar lavage, USA, see Crous et al. (2017; taxonomy), holotype: CBS H-23131, cultures and sequences are available.

Neodasyscypha Suková & Spooner 2005 (= *Dasyscypha* Fuckel 1870 [1869-70]; = *Neodasyscypha* Spooner 1987 *fide* Species Fungorum 2017), *Lachnaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *N. cerina* (Pers.) Spooner, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Whitton et al. (2012b; on *Pandanus*), Jaklitsch et al. (2016a; classification), cultures and sequences are available, available specimen of type: CBS H-15118.

Neodeightonia C. Booth 1970, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, six species, type: *N. subglobosa* Booth, asexual morph coelomycetous, saprobes, pathogens, in soil, terrestrial, cosmopolitan, see Phillips et al. (2008, 2013; taxonomy, phylogeny), Liu et al. (2012; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, taxonomy, phylogeny), Dissanayake et al. (2016b; taxonomy), Dai et al. (2017, new species, phylogeny), Konta et al. (2016a; new species), holotype and ex-type of the type: IMI 57769(f), CBS 448.91.

Neodeightoniella Crous & W.J. Swart 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. phragmiticola* Crous & W.J. Swart, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2013b; morphology), cultures and sequences are available, holotype and ex-type of type: CBS H-21427; CPC 22059.

Neodevriesia Quaedvl. & Crous 2014, *Neodevriesiaceae*, *Capnodiales*, *Dothideomycetes*, 17 species, type: *N. hilliana* (Crous & U. Braun) Quaedvl. & Crous, hyphomycetous, with teratosphaeria-like sexual morph, saprobes, terrestrial, worldwide, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), Crous et al. (2015d; morphology, phylogeny, sexual morph), cultures and sequences are available, holotype and ex-type of the type: CBS H-20340; CPC 15382.

Neodidymella Phook., R.H. Perera & K.D. Hyde 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *N. thailandicum* Phook. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU11-0176, MFLUCC 11-0140.

Neodidymelliopsis Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *N. cannabis* (G. Winter) Q. Chen & L. Cai, asexual morph coelomycetous, saprobes, ?pathogens, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), ex-type of the type: CBS 121.75.

Neodiplodina Petr. 1954, *Ascomycota* genera *incertae sedis*, one species, type: *N. verruciformis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neoeriomycopsis Crous & M.J. Wingf. 2015, *Sordariomycetes*, genera *incertae sedis*, one species, type: *N. aristata* (B. Sutton & Hodges) Crous & M.J. Wingf., coelomycetous, saprobes, Brazil, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline, phylogeny), epitype and ex-epitype of the type: CBS H-22243, CPC 25050.

Neoerysiphe U. Braun 1999, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, c. 15 species, type species: *N. galeopsidis* (DC.) U. Braun, sexual and hyphomycetous asexual morphs, obligate plant pathogens, terrestrial, almost worldwide, asexual morph: *Striatoidium* (R.T.A. Cook, A.J. Inman & C. Billings) R.T.A. Cook & U. Braun, see Takamatsu (2008a; phylogeny), Heluta et al. (2010; phylogeny), Braun and Cook (2012; taxonomy), DNA sequences available, lectotype of type: G 00122104.

Notes: *Striatoidium* was originally described as *Oidium* subgen. *Striatoidium* R.T.A. Cook, A.J. Inman & C. Billings, typified by *Oidium leucas-javanicae* Sawada, which is a synonym of *Oidium lamii* Rabenh. according to Braun and Cook (2012). This subgenus was subsequently raised to genus status by Braun and Cook (2012), but no binomial in *Striatoidium* was given to the type species. In addition, four species in *Striatoidium* which lack a *Neoerysiphe* sexual morph are known, i.e. *S. aloysiae* (S. Wolcan, S. Takam. & Havryl.) S. Wolcan, S. Takam. & Havryl., *S. baccharidis* (Havryl. & U. Braun) U. Braun & Havryl., *S. jaborosae* M.G. Cabrera & U. Braun, and *S. maquii* (Havryl. & U. Braun) U. Braun & Havryl. *Oidium lamii* is the asexual morph of *N. galeopsidis* (Braun and Cook 2012) and under unitary nomenclature, the genus *Striatoidium* should be considered a synonym of *Neoerysiphe*. *Oidium leonuri-sibiricae* Sawada is also a synonym of *O. lamii* (Braun and Cook 2012), therefore these names and *O. leucas-javanicae* need to be synonymized with *N. galeopsidis*. In addition, molecular phylogenetic studies have revealed the placement of *S. aloysiae*, *S. baccharidis*, and *S. maquii* in *Neoerysiphe*, indicating that these names need to be reallocated accordingly. The phylogenetic placement of *S. jaborosae*

is unknown and therefore no new combination can be proposed for this taxon in the current state.

***Neoerysiphe galeopsidis* (DC.) U. Braun, Schlechtendalia 3:50. 1999**

= *Oidium lamii* Rabenh., Flora 36:204. 1853.

= *Oidium leucas-javanicae* Sawada, Bull. Dept. Agric. Gov. Res. Inst. Formosa 24:22. 1927

= *Oidium leonuri-sibiricae* Sawada, loc. cit.:24

Additional synonyms of *N. galeopsidis* are listed in Braun and Cook (2012).

***Neoerysiphe aloysiae* (S. Wolcan, S. Takam. & Havryl.) S. Takam., comb. nov.**

IndexFungorum number: IF553242

Basionym: *Oidium aloysiae* S. Wolcan, S. Takam. & Havryl., in Takamatsu *et al*. Mycol. Res. 112:644, 2008.

≡ *Striatoidium aloysiae* (S. Wolcan, S. Takam. & Havryl.) S. Wolcan, S. Takam. & Havryl., in U. Braun & R.T.A. Cook, Taxonomic Manual of the *Erysiphales* (Powdery Mildews): 347. 2012.

***Neoerysiphe baccharidis* (Havryl. & U. Braun) S. Takam., comb. nov.**

IndexFungorum number: IF553243

Basionym: *Oidium baccharidis* Havryl. & U. Braun, Nova Hedw. 66(3–4):515. 1998.

≡ *Striatoidium baccharidis* (Havryl. & U. Braun) U. Braun & Havryl., Taxonomic Manual of the *Erysiphales* (Powdery Mildews):348. 2012.

***Neoerysiphe maquii* (Havryl. & U. Braun) S. Takam., comb. nov.**

IndexFungorum number: IF553244

Basionym: *Oidium maquii* Havryl. & U. Braun, Nova Hedw. 66(3–4):518. 1998.

≡ *Striatoidium maquii* (Havryl. & U. Braun) U. Braun & Havryl., Taxonomic Manual of the *Erysiphales* (Powdery Mildews):349. 2012.

Neofabraea H.S. Jacks. 1913 (= *Allantozythia* Höhn. 1924; = *Phlyctema* Desm. 1847 *fide* Johnston et al. 2014b), *Dermateaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *N. malicorticis* H.S. Jacks., asexual morph hyphomycetous, saprobes, pathogens, terrestrial, worldwide, see Raitviir (2008; Magadan), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature, new combination), Crous et al. (2015e; new species), de Jong et al. (2015; phylogeny), Chen et al. (2016b; new species), cultures and sequences are available, cultures available for the type: DAOM 227090, neotype of type: CBS H-22219.

Neoflageoletia J. Reid & C. Booth 1966, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *N. bambusina* (Syd.) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Neofracchiaea Teng 1938, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *N. callista* (Berk. & M.A. Curtis) Teng, asexual morph unknown, saprobes, see Mugambi and Huhndorf (2010; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Neofuckelia Zeller & Goodd. 1935, *Ascomycota* genera *incertae sedis*, one species, type: *N. pinicola* (Zeller & Goodd.) Zeller & Goodd., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neofusicoccum Crous, Slippers & A.J.L. Phillips 2006, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, c. 29 species, type: *N. parvum* (Pennycook & Samuels) Crous, Slippers & A.J.L. Phillips, coelomycetous (with dichomera-like synasexual morphs), saprobes, pathogens, terrestrial, cosmopolitan, see Phillips et al. (2008, 2013; taxonomy, phylogeny), Pavlic et al. (2009; new species), Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Yan et al. (2013; species associated with grpe wine), Wijayawardene et al. (2014c, 2017; outline, taxonomy, phylogeny), Dissanayake et al. (2016b; taxonomy), holotype and ex-type of the type: PDD 45438, ATCC 58191.

Neogaeumannomyces D.Q. Dai & K.D. Hyde 2015, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *N. bambusicola* D.Q. Dai & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Liu et al. (2015a; phylogeny, taxonomy), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available, holotype and ex-type of type: MFLU 14–0822; MFLUCC 11–0390.

Neogymnomyces G.F. Orr 1970, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *N. demonbreunii* (Ajello & S.L. Cheng) G.F. Orr, asexual morph unknown, saprobes, Spain, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available, available specimen and cultures for the type: CBS H-7197; CBS 233.85.

Neohaplomyces R.K. Benj. 1955, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *N. medonalis* R.K. Benj., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neohelicomyces Z.L. Luo, D.J. Bhat & K.D. Hyde 2017, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, two species, type: *N. aquaticus* Z.L. Luo, Baht & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Luo et al. (2017; taxonomy, phylogeny), holotype of the type: MFLU 16-2543, cultures and sequences are available.

Neohendersonia Petr. 1921, *Neohendersoniaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *N. piriformis* (G.H. Otth) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neoheppia Zahlbr. 1909, *Peltulaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *N. brasiliensis* Zahlbr., asexual morph unknown, saprobes, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neoheteroceras Nag Raj 1993 (= *Heteroceras* Sacc. 1915 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *N. flageoletii* (Sacc.) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, France, Japan, see Yonezawa and Tanaka (2008; morphology, new species), Wijayawardene et al. (2012, 2016b, 2017; morphology, outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: PAD 940.

Neohortaea Quaedvl. & Crous 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *N. acidophila* (Hölker, Bend, Pracht, Tetsch, Tob. Müll., M. Höfer & de Hoog) Quaedvl. & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Germany, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), cultures and sequences are available, ex-type strain of type: CBS 113389.

Neohypodiscus J.D. Rogers, Y.M. Ju & Læssøe 1994 (= *Hypodiscus* Lloyd 1923 *fide* Species Fungorum 2017), *Boliniaceae*, *Boliniales*, *Sordariomycetes*, three species, type: *N. rickii* (Lloyd) J.D. Rogers, Y.M. Ju & Læssøe, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Senanayake et al. (2015; accepted in *Xylariomycetidae*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Neoidriella Hern.-Restr. & Crous 2015, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *N. desertorum* (Nicot & Mouch.) Hern.-Restr. & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Egypt, see Hernández-Restrepo et al. (2016b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Neojohnstonia B. Sutton 1983 (= *Johnstonia* M.B. Ellis 1971 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *N. colocasiae* (M.B. Ellis) B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type was not designated but several specimens are at IMI and CBS (CBS H-4370).

Neokalmusia Kaz. Tanaka, Ariyaw. & K.D. Hyde 2014, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *N. brevispora* (Nagas. & Y. Otani) Kaz. Tanaka, Ariyaw. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Japan, Thailand, see Ariyawansa et al. (2014e; taxonomy, phylogeny), Dai et al. (2015a, 2017; taxonomy, phylogeny), Tanaka et al. (2015; taxonomy, phylogeny), Thambugala et al. (2017b, phylogeny, new species), cultures and sequences are available.

Neolamya Theiss. & Syd. 1918 (= *Lamyella* Berl. 1899 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, two species, type: *N. peltigerae* (Mont.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, Brazil, see Kocourková (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Neolecta Speg. 1881, *Neolectaceae*, *Neolectales*, *Neolectomycetes*, three species, type: *N. flavovirescens* Speg., asexual morph unknown, saprobes, terrestrial, Brazil, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available but lacking for the type species.

Neoleptosphaeria Ariyawansa & K.D. Hyde 2015, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. rubefaciens* (Togliani) Ariyawansa & K.D. Hyde, asexual morph unknown, saprobes, Europe, see Ariyawansa et al. (2015b; taxonomy), Wanasinghe et al. (2016c; new species), cultures and sequences are available.

Neoligniella Naumov 1951, *Ascomycota* genera *incertae sedis*, four species, type: *N. immersa* Naumov, coelomycetous, sexual morph unknown, saprobes, terrestrial, former USSR, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neolinocarpon K.D. Hyde 1992, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, ten species, type: *N. globosicarpum* K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; treated as a genus in *Sordariomycetes*), Maharachchikumbura et al.

(2015b, 2016b; outline), cultures and sequences are available.

Neolophiostoma S. Boonmee & K.D. Hyde 2015, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. pigmentatum* Boonmee & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 10-0062, MFLUCC 10-0129.

Neomassaria Mapook, Camporesi & K.D. Hyde 2016, *Massariaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. fabacearum* Mapook, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 16-1875, MFLUCC 14-1117.

Neomassariosphaeria Y. Zhang bis, J. Fourn. & K.D. Hyde 2009, *Lindgomycetaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. typhicola* (P. Karst.) Y. Zhang ter, J. Fourn. & K.D. Hyde, asexual morph unknown, saprobes, aquatic, cosmopolitan, see Zhang et al. (2009d; taxonomy, accepted as a genus in *Amniculicolaceae*), Hyde et al. (2013; accepted as a genus in *Amniculicolaceae*), Ariyawansa et al. (2015a; accepted as a genus in *Lindgomycetaceae*), Jones et al. (2015; outline, accepted as a genus in *Amniculicolaceae*), cultures and sequences are unavailable.

Neomelanconium Petr. 1940, *Ascomycota* genera *incertae sedis*, three species, type: *N. gelatosporum* (Zimm.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, former USSR, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy, new species), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neomicrosphaeropsis Thambug., Camporesi & K.D. Hyde 2016, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *N. italica* Thambug., Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Thambugala et al. (2017a, b; taxonomy, phylogeny), Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 16-0674, MFLUCC 16-0284.

Neomunkia Petr. 1947, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *N. sydowii* Petr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequences are available.

Neomycosphaerella Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. pseudopentameridis* Crous, asexual morph unknown, foliicolous, South Africa, see Crous et al. (2013b; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), cultures and sequences are available, holotype and ex-type of type: CBS H-21416; CPC 21127.

Neomyrothecium L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *N. humicola* L. Lombard & Crous, hyphomycetous, sexual morph unknown, from soil, terrestrial, Papua New Guinea, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), holotype and ex-type of the type: CBS H-22456, CBS 310.96.

Neonectria Wollenw. 1917 (= *Heliscus* Sacc. 1880; = *Cylindrocarpon* Wollenw. 1913 *fide* Rossman et al. 2013b, 2016a; see Species Fungorum 2017 fordditional synonyms), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 28 species, type *N. ramulariae* Wollenw., on bark, sometimes causing cankers, cosmopolitan, mostly in temperate regions, see Chaverri et al. (2011; phylogeny), Rossman et al. (2013b; *Neonectria* protected against *Cylindrocarpon*), Lombard et al. (2015b; synonymised *Heliscus* under *Neonectria*), Maharachchikumbura et al. (2015b, 2016b; phylogeny), Rossman et al. (2016a; nomenclature), cultures and sequences are available, cultures available for type: CBS 151.29 =IMI 113894 =MUCL 28083), holotype of the type species B.

Neooccultibambusa Doilom & K.D. Hyde 2016, *Occultibambusaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. chiangraiensis* Doilom & K.D. Hyde, saprobes, terrestrial, see Jayasiri et al. (2016, b, c; new species), Doilom et al. (2017; phylogeny), cultures and sequences are available, holotype and ex-type strains of type: MFLU 15–3531; MFLUCC 12–0559, MKT 075, ICMP 21165.

Neoophiosphaerella Kaz. Tanaka & K. Hiray. 2015, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. sasicola* (Nagas. & Y. Otani) Kaz. Tanaka & K. Hiray., asexual morph unknown, saprobes, terrestrial, Japan, see Tanaka et al. (2015; morphology, phylogeny), cultures and sequences are available, holotype, epitype and ex-epitype of the type: TMI 3176, HHUF 29443; CBS 120247.

Neoovularia U. Braun 1992, *Ascomycota* genera *incertae sedis*, six species, type: *N. nomuriana* (Sacc.) U. Braun (≡ *Tuberculina nomuriana* Sacc.), asexual morphs hyphomycetous, terrestrial, plant pathogenic, leaf-spotting, Asia, Europe, North America, see Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: Nomura (PAD).

Neoparodia Petr. & Cif. 1932, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *N. ekmanii* Petr. & Cif., asexual morph chuppia-like or sarcinella-like, saprobes, terrestrial, West Indies, see Lumbsch and Huhndorf (2010; outline), Hyde et al.

(2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Neopeckia Sacc. 1883 (= *Didymotrichia* Berl. 1893 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *N. coulteri* (Peck) Sacc., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but unavailable for type species.

Neopeltella Petr. 1950, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, three species, type: *N. aequatoriensis* Petr., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline, accepted in *Schizothyriaceae*), Hyde et al. (2013, accepted in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Schizothyriaceae*), Phookamsak et al. (2016; placed in *Micropeltidaceae*), cultures and sequences are unavailable.

Neopeltis Syd. 1937, *Ascomycota* genera *incertae sedis*, three species, type: *N. brenesii* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, central America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neopenidiella Quaedvl. & Crous 2014, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. nectandrae* (Crous, U. Braun & R.F. Castañeda) Quaedvl. & Crous, hyphomycetous, sexual morph unknown, foliicolous, terrestrial, Cuba, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), cultures and sequences are available, holotype and ex-type culture of type: INIFAT C87/45; CBS 734.87.

Neopericonia Kamal, A.N. Rai & Morgan-Jones 1983, *Ascomycota* genera *incertae sedis*, three species, type: *N. indica* Kamal, A.N. Rai & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neopestalotiopsis Maharachch., K.D. Hyde & Crous 2014, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, 27 species, type: *N. protearum* (Crous & L. Swart) Maharachch., K.D. Hyde & Crous, coelomycetous, sexual morph unknown, saprobes, pathogens on plants, worldwide, see Maharachchikumbura et al. (2014b, 2016c; phylogeny, morphology), Jayawardena et al. (2016a; new species), Wijayawardene et al. (2016b; outline, taxonomy), sequence data available for all species, holotype and ex-type of the type: PREM 56186; CBS 114178.

Neopetromyces Frisvad & Samson 2000, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, one species, type: *N. muricatus* (Udagawa, Uchiy. & Kamiya) Frisvad & Samson, asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available, holotype and ex-type strain of type species CBM BF-42515; NRRL 35674.

Neophacidium Petr. 1950, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *N. macrocarpum* (Pat.) Petr., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neophaeococcomyces Crous & M.J. Wingf. 2015, *Strelitzianaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *N. aloes* (Crous & M.J. Wingf.) Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, South Africa, Switzerland, see Crous et al. (2015e; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-21441, CPC 21873.

Neophaeocryptopus Wanas., Camporesi, E.B.G. Jones & K.D. Hyde 2016, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, one species, type: *N. cytisi* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, asexual morph coelomycetous, sexual morph bitunicate ascomycetous, saprobes, terrestrial, Europe, see Li et al. (2016a; taxonomy, phylogeny), holotype and ex-type strain of type: MFLU 15-3542; MFLUCC 14-0970.

Neophaeomoniella Rooney-Latham & Crous 2015, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, three species, type: *N. eucalypti* Rooney-Latham & Crous, coelomycetous, sexual morph unknown, on living leaves, endophytic, terrestrial, USA, South Korea, South Africa, see Crous et al. (2015d; morphology, phylogeny), cultures and sequences are available, holotype and ex-type culture of type: CBS H-22249; CPC 25161.

Neophaeosphaeria M.P.S. Câmara, M.E. Palm & A.W. Ramaley 2003, *Neophaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *N. filamentosa* (Ellis & Everh.) M.P.S. Câmara, M.E. Palm & A.W. Ramaley, asexual morph coelomycetous, saprobes or pathogenic, terrestrial, Mexico, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Leptosphaeriaceae*), Crous et al. (2013b; taxonomy), Ariyawansa et al. (2015a; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), sequence data available for all species.

Neophaeothecoidea Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. proteae* (Crous) Quaedvl. & Crous, hyphomycetous, saprobes, terrestrial, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; outline), cultures and

sequences are available, holotype and ex-type of the type: CBS H-20092; CPC 2828.

Neophoma Petr. & Syd. 1927, *Ascomycota* genera *incertae sedis*, two species, type: *N. graminella* (Sacc.) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America., see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neophyllis F. Wilson 1891 (= *Phyllis* F. Wilson 1889 *fide* Species Fungorum 2017), *Sphaerophoraceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *N. melacarpa* F. Wilson, asexual morph unknown, lichenized, terrestrial, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available for the type species, holotype of type species available.

Neophysalospora Crous & M.J. Wingf. 2014, *Clypeophysalosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *N. eucalypti* Crous & M.J. Wingf., asexual morph coelomycetous, saprobes, terrestrial, Mozambique, South Africa, see Crous et al. (2014d; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Giraldo et al. (2017; phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Neoplaconema B. Sutton 1977, *Ascomycota* genera *incertae sedis*, two species, type: *N. napelli* (Maire & Sacc.) B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, Germany, see Wijayawardene et al. (2012, 2017; outline), sequences are available, holotype of the type species was not designated (IMI 24787).

Neoplatysporoides Crous & M.J. Wingf. 2015, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. aloeicola* Crous & M.J. Wingf., asexual morph coelomycetous, saprobes, Tanzania, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22230, CPC 24435.

Neopodoconis Rifai 2008, *Ascomycota* genera *incertae sedis*, three species, type: *N. ampullacea* (Petch) Rifai, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Indonesia, see Rifai (2008; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, holotype of type species available.

Neopseudocercospora Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *N. terminaliae* Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Zambia, type, see Crous et al. (2013b; morphology), Braun et al. (2014b; morphology, keys), cultures and sequences are available, holotype and ex-type of the type: CBS H- 21431; CPC 22685.

Neopseudocercosporella Videira & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *N. capsellae* (Ellis & Everh.) Videira & Crous, hyphomycetous, sexual morph mycosphaerella-like, plant pathogenic on *Brassica* species, USA, see Videira et al. (2016; morphology, phylogeny), cultures and sequences are available, holotype and isotype of type species NY 883641; BPI 399944.

Neopseudolachnella A. Hashim. & Kaz. Tanaka 2015, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, three species, type: *N. acutispora* A. Hashim., Sat. Hatak. & Kaz. Tanaka, coelomycetous, sexual morph unknown, saprobes, Japan, see Hashimoto et al. (2015b; morphology, phylogeny), sequences are available, holotype and ex-type strain of type: HHUF 29727; MAFF 244358.

Neopsoromopsis Gyeln. 1940, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *N. argentina* Gyeln., asexual morph unknown, lichenized, terrestrial, Argentina, see Lumbsch and Huhndorf (2010; outline), Thell et al. (2012; review), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Neopyricularia Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *N. commelinicola* (M.J. Park & H.D. Shin) Klaubauf, Lebrun & Crous, asexual morph unknown, saprobes, terrestrial, South Korea, see Klaubauf et al. (2014; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and available cultures for the type: KUS (F) 22838; CBS 128308 =KACC 43081.

Neoramichloridium Phook., Thambug. & K.D. Hyde 2017, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. bambusicola* Thambug., Phook. & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, Thailand, see Thambugala et al. (2017a, 2017b; taxonomy, phylogeny), holotype of the type: MFLU 16–2278.

Neoramularia U. Braun 1991, *Ascomycota* genera *incertae sedis*, nine species, type: *N. eurotiae* (Gamalizk.) U. Braun, hyphomycetous, sexual morph unknown, terrestrial, plant pathogenic, leaf-spotting, Asia, Europe, North America, see Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: LE 41968.

Neorehmia Höhn. 1902, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, two species, type: *N. ceratophora* Höhn., asexual morph tritirachium-like, saprobes, Austria, see Lumbsch and Huhndorf (2010;

outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Neorhamphoria Boonmee, E. Hüseyin & F. Selçuk 2016, *Tubeufiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *N. garethjonesii* Boonmee, E. Hüseyin & F. Selçuk, asexual morph unknown, saprobes, Turkey, see Boonmee et al. (2016b; taxonomy), holotype: KE 201, cultures and sequences are available.

Neoroussoella J.K. Liu, Phook. & K.D. Hyde 2014, *Roussoellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. bambusae* Phook., J.K. Liu & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Asia, see Liu et al. (2014a; taxonomy, phylogeny), Hyde et al. (2016; outline), cultures and sequences are available.

Neosartorya Malloch & Cain 1973 (= *Hemisartorya* J.N. Rai & H.J. Chowdhery 1976 [1975]; = *Saitoa* Rajendran & Muthappa 1980 *fide* Species Fungorum 2017), *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, 15 species, type: *N. fischeri* (Wehmer) Malloch & Cain, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, available specimen of type: CBS H-15123.

Neoscolecobasidium Crous 2016, *Microthyriales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *N. agapanthi* Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: CBS H-22870, CPC 28778.

Neoscytalidium Crous & Slippers 2006, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, two species, type: *N. dimidiatum* (Penz.) Crous & Slippers, coelomycetous, sexual morph unknown, saprobes, pathogen, tropical and sub-tropical regions of Europe, Africa, Asia, North and South America, see Liu et al. (2012b; phylogeny), Phillips et al. (2013; morphology, phylogeny, new comb. for type species), Huang et al. (2016a; new species), cultures and sequences are available, isotype and ex-isotype strain of the type species CBS H-7745; CBS 145.78.

Neoseptoria Quaedvl., Verkley & Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *N. caricis* Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, saprobes, terrestrial, Netherlands, see Quaedvlieg et al. (2013; morphology, phylogeny), sequence data available, holotype and ex-type of the type: CBS H-21293; CBS 135097.

Neoseptorioides Crous, J. Edwards & I.G. Pascoe 2015, *Saccharataceae*, *Botryosphaeriales*, *Dothideomycetes*, two species, type: *N. eucalypti* Crous, J. Edwards & I.G. Pascoe, coelomycetous, sexual morph unknown, saprobes, Australia, see Crous et al. (2015e; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22395, CPC 25529.

Neosergipea M. Cáceres, Ertz & Aptroot 2016, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *N. aurata* (M. Cáceres, Ertz & Aptroot) Lücking, M. Gut. & Moncada, lichenized, terrestrial, tropical, see Lücking et al. (2016a, 2017b; nomenclature), cultures and sequences are available, holotype of type species ISE, Céceres & Jesus 12539 (as *Sergipea aurata* M. Cáceres, Ertz & Aptroot).

Neosetophoma Gruyter, Aveskamp & Verkley 2010, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *N. samararum* (Desm.) Gruyter, Aveskamp & Verkley, asexual morph coelomycetous, saprobes and plant endophytes, terrestrial, aquatic, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Li et al. (2015c; phylogeny), Phookamsak et al. (2014c; phylogeny), Tibpromma et al. (2017b; new species), Thambugala et al. (2017b, new species, phylogeny), cultures and sequences are available, holotype and ex-type strains of type: CBS H-20319; CBS 138.96 =PD 82/653.

Neospegazzinia Petr. & Syd. 1936, *Ascomycota* genera *incertae sedis*, two species, type: *N. pulchra* Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neosphaerellopsis Crous & Trakun. 2014, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. thailandica* Crous & Trakun., on uredinio rust sori on leaves of *Bothriochloa bladhii*, terrestrial, Thailand, see Trakunyingcharoen et al. (2014; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type: CBS H-21847; CPC 21659.

Neosporidesmium Mercado & J. Mena 1988, *Ascomycota* genera *incertae sedis*, two species, type: *N. maestrense* Mercado & J. Mena, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Ma et al. (2011b; new species), Mel'nik and Braun (2013; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Prasher and Verma (2014; new species, India), Mel'nik et al. (2016; new species), cultures and sequences are unavailable.

Neostagonospora Quaedvl., Verkley & Crous 2013, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. caricis* Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, saprobes, terrestrial, Netherlands, South Africa, see Quaedvlieg et al. (2013; morphology, phylogeny), Phookamsak et al. (2014c; phylogeny), Thambugala et al. (2017b, new species, phylogeny), cultures and sequences are available,

holotype and ex-type of the type: CBS H-21306; CBS 135092.

Neostrelitziana Crous & M.J. Wingf. 2015, *Chaetothyriales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *N. acaciigena* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, Malaysia, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22232, CPC 24873.

Neosulcatispora Crous & M.J. Wingf. 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. agave* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, France, see Crous et al. (2015e, 2016b; new species, phylogeny), Wijayawardene et al. (2016b, 2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22404, CPC 26407.

Neotapesia E. Müll. & Hütter 1963, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *N. graddonii* E. Müll. & Hütter, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Neotestudina Segretain & Destombes 1961 (= *Pseudodelitschia* J.N. Kapoor, Bahl & S.P. Lal 1976 [1975]; = *Pseudophaeotrichum* Arx, E. Müll. & C. Stoll 1969 *fide* Species Fungorum 2017), *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *N. rosatii* Segretain & Destombes, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Testudinaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are available, available specimen and cultures for the type: CBS H-200; CBS 690.82.

Neothyridaria Petr. 1934, *Sordariomycetes* genera *incertae sedis*, one species, type: *N. moravica* Petr., asexual morph unknown, saprobes, terrestrial, Europe, see Kocourková (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Neothyronectria Crous & Thangavel 2016, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *N. sophorae* Crous & Thangavel, coelomycetous, sexual morph unknown, saprobes, terrestrial, New Zealand, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: CBS H-22880, CPC 29690.

Neotorula Ariyaw., Z.L. Luo & K.D. Hyde 2016, *Torulaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *N. aquatica* Z.L. Luo & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, aquatic, worldwide, see Hyde et al. (2016; new species), Su et al. (2016c; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Neotrematosphaeria Thambug., Kaz. Tanaka & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *N. biappendiculata* (Kaz. Tanaka, Y. Harada & M.E. Barr) Thambug., Kaz. Tanaka & K.D. Hyde, asexual morph pleurophomopsis-like, saprobes, freshwater, Japan, see Thambugala et al. (2015b; morphology, phylogeny), sequence data available, holotype and ex-type of type species HHUF 28026; MAFF 239297.

Neotrimmatostroma Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *N. excentricum* (B. Sutton & Ganapathi) Quaedvl. & Crous, with hyphomycetous asexual morph, foliicolous, terrestrial, Australia, New Zealand, see Quaedvlieg et al. (2014; morphology, phylogeny), Crous et al. (2016b; new species, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype of sexual morph of the type: CBS H-19829, ex-type strain of the type: CPC 13092.

Neotrotteria Sacc. 1921, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, two species, type: *A N. pulchella* Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; DNA), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Neotruncatella Hyang B. Lee & T.T.T. Nguyen 2016, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *N. endophytica* Hyang B. Lee, P.M. Kirk, K.D. Hyde, Maharachch., & T.T.T. Nguyen, coelomycetous, sexual morph unknown, endophytes, terrestrial, Korea, see Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 15-0399, EMLAS5-1.

Neottiella Cooke Sacc. 1889 (= *Neottiopezis* Clem. 1903; = *Peziza* subgen. *Neottiella* Cooke 1879; = *Peziza* subgen. *Scypharia* Quél. 1886; = *Scypharia* (Quél.) Quél. 1886 *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, 13 species, type: *N. albocincta* (Berk. & M.A. Curtis) Sacc., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Neottiospora Desm. 1843 (= *Samukuta* Subram. & K. Ramakr. 1957; = *Spilomyces* Petr. & Syd. 1927 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *N. caricum* Desm., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Neottiosporina Subram. 1961 (= *Sadasivanella* Agnihothr. 1964 *fide* Species Fungorum 2017), *Dothideomycetes*, genera *incertae sedis*, eleven species, type: *N. apoda* (Speg.) Subram., sexual morph unknown, saprobes, terrestrial, Asia, Australia, South America, see de Gruyter et al. (2009; phylogeny), Wijayawardene et al. (2012, 2016b, 2017; outline), Trakunyingcharoen et al. (2014; phylogeny), cultures and sequences are available for one species (*N. paspali*).

Neotyphodium Glenn, C.W. Bacon & Hanlin 1996, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *N. coenophialum* (Morgan-Jones & W. Gams) Glenn, C.W. Bacon & Hanlin, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, available specimen and culture for type: CBS H-3511; CBS 494.82.

Neournula Paden & Tylutki 1969, *Chorioactidaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *N. nordmanensis* Paden & Tylutki, asexual morph unknown, saprobes, terrestrial, USA, Europe, North Africa, see Pfister et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), cultures and sequences are available but lacking for the type species, holotype of type: WSP 56281.

Neoventuria Syd. & P. Syd. 1919 (= *Venturiella* Speg. 1909 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, two species, type: *N. argentinensis* (Speg.) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Neozythia Petr. 1958 (= *Sclerozythia* Petr. 1955 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *N. nectrioidea* (Petr.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Iran, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Nephroma Ach. 1809 (= *Dermatodea* Vent. 1799; = *Nephromatomyces* E.A. Thomas 1939; = *Nephromiomyces* E.A. Thomas ex Cif. & Tomas. 1953; = *Nephromium* Nyl. 1860; = *Opisteria* (Ach.) Vain. 1909; = *Ornatinephroma* Gyeln. 1934; = *Peltidea* subdiv. *Opisteria* Ach. 1803 *fide* Species Fungorum 2017), *Nephromataceae*, *Peltigerales*, *Lecanoromycetes*, 36 species, type: *N. polaris* (Ach.) Ach., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Nephromopsis Müll. Arg. 1891 (= *Cetrariopsis* Kurok. 1980; = *Flavocetrariella* D.D. Awasthi 2007; = *Kaernefeltia* Thell & Goward 1996; = *Masonhalea* Kärnefelt 1977; = *Tuckermanella* Essl. 2003; = *Tuckermanopsis* Gyeln. 1933 *fide* Divakar et al. 2017; Lücking et al. 2017a), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 24 species, type: *N. stracheyi* (C. Bab.) Müll. Arg., asexual morph unknown, lichenized, terrestrial, Argentina, see Thell et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Randlane et al. (2013; new species), Lücking et al. (2017a; classification), Divakar et al. (2017; phylogeny), sequences are available.

Neptunella K.L. Pang & E.B.G. Jones 2003, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *N. longirostris* (Cribb & J.W. Cribb) K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, Australia, see Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; review), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Nereiospora E.B.G. Jones, R.G. Johnson & S.T. Moss 1983, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *N. comata* (Kohlm.) E.B.G. Jones, R.G. Johnson & S.T. Moss, asexual morph hyphomycetous, on wood, marine, worldwide, see Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015a, b; outline), cultures and sequences are available.

Neta Shearer & J.L. Crane 1971, *Ascomycota* genera *incertae sedis*, two species, type: *N. patuxentica* Shearer & J.L. Crane, hyphomycetous, sexual morph unknown, saprobes, terrestrial and aquatic, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: ILLS 34520.

Neurospora Shear & B.O. Dodge 1927 (= *Anixiella* Saito & Minoura 1948; = *Chrysonilia* Arx 1981 *fide* Réblová et al. 2016c), *Sordariaceae*, *Sordariales*, *Sordariomycetes*, 52 species, type: *N. sitophila* Shear & B.O. Dodge, asexual morph formerly named in *Chrysonilia*, saprobes, terrestrial, worldwide, see Villalta et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Nygren et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available for type species.

Nevesia P.M. Jørg, L. Lindblom, Wedin & S. Ekman 2014, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *N. sampaiana* (Tavares) P.M. Jørg., L. Lindblom, Wedin & S. Ekman, lichenized, terrestrial, worldwide, see Ekman et al. (2014; taxonomy), Lücking

et al. (2017a; classification), cultures and sequences are available.

Nidulispora Nawawi & Kuthub. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *N. quadrifida* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, aquatic, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Niebla Rundel & Bowler 1978 (see Species Fungorum 2017 for synonyms), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 22 species, type: *N. homalea* (Ach.) Rundel & Bowler, lichenized, New World, see Lumbsch and Huhndorf (2010; outline), Sérusiaux et al. (2010; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Niesslia Auersw. 1869 (= *Lohwagiella* Petr. 1970 [1969]; = *Nitschkia* Nitschke ex Fuckel 1870 [1869-70] *fide* Species Fungorum 2017), *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, 42 species, type: *N. chaetomium* (Corda) Auersw., asexual morph unknown, lichenicolous, parasitizing members of *Peltigerales*, terrestrial, Australia, Asia and Europe, see Etayo and Sancho (2008; three new species), Motiejūnaitė and Czyżewska (2008; Poland), Zhurbenko and Dillman (2010; Alaska), Etayo et al. (2013a; new species), Himelbrant et al. (2014; Russia), Judith et al. (2015; phylogeny), Zhurbenko and Pino-Bodas (2015; New Zealand), sequence data available for *Niesslia exilis*.

Nigrocornus Ryley & Langdon 2003, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *N. scleroticus* (Pat.) Ryley, asexual morph contains simple conidiophores, endophytes, terrestrial, Africa, SE Asia, Australia, see Cheplick and Faeth (2009; ecology), Wijayawardene et al. (2012, 2017; outline), Pańka et al. (2013; Poland), Maharachchikumbura et al. (2015b, 2016b; outline), DNA sequence data available (as *Balansia sclerotica*), culture data unavailable, neotype of the type species FH (Farlow Herbarium).

Nigrograna Gruyter, Verkley & Crous 2012, *Nigrogranaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *N. mackinnonii* (Borelli) Gruyter, Verkley & Crous, asexual morph coelomycetous, saprobes, Europe, see de Gruyter et al. (2012; taxonomy), Jaklitsch and Voglmayr (2016; taxonomy, phylogeny), Tibpromma et al. (2017b; new species), holotype of the type: WU 36874.

Nigrolentilocus R.F. Castañeda & Heredia 2001, *Ascomycota* genera *incertae sedis*, five species, type: *N. africanus* (B. Sutton) R.F. Castañeda & Heredia, hyphomycetous, sexual morph unknown, saprobes, terrestrial & aquatic, Malawi, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), holotype of type: IMI 347112a, cultures and sequences are unavailable, compare with *Matsushimiella*, *Minimelanolocus*, *Pseudospiropes*, *Spiropes* and *Sympodioplanus*.

Nigromacula Etayo 2002, *Ascomycota* genera *incertae sedis*, one species, type: *N. hypotrachynae* Etayo, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, South America, Europe, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: COL Etayo 16185.

Nigromammilla K.D. Hyde & J. Fröhl. 2003, *Sordariomycetes* genera *incertae sedis*, one species, type: *N. calami* K.D. Hyde & J. Fröhl. [as *'Nigramammilla calami'*], asexual morph unknown, saprobes, terrestrial, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: HKU (M) JF212.

Nigropuncta D. Hawksw. 1981, *Ascomycota* genera *incertae sedis*, two species, type: *N. rugulosa* D. Hawksw., coelomycetous, lichenized, lichenicolous, Europe, terrestrial, sexual morph unknown, see Wijayawardene et al. (2012, 2016b, 2017; morphology, outline), Kirk et al. (2013; genus accepted), cultures and sequences unavailable, holotype of type: K(M)-IMI 241409.

Nigrosabulum Malloch & Cain 1970, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, twelve species, type: *N. globosum* Malloch & Cain, asexual morph acremonium-like, saprobes, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted in *Bionectriaceae*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; accepted in *Hypocreales*), cultures and sequences are available, holotype of type species TRTC 43288.

Nigrospora Zimm. 1902 (= *Basisporium* Molliard 1902; = *Dichotomella* Sacc. 1914; = *Khuskia* H.J. Huds. 1963; = *Phaeoconis* Clem. 1909 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Sordariomycetes*, genera *incertae sedis*, four species, type: *N. panici* Zimm., hyphomycetous, sexual morph formerly named in *Khuskia*, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are available.

Nigrovothelium Lücking, M.P. Nelsen & Aptroot 2016, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, two species, type: *N. tropicum* (Ach.) Lücking, M.P. Nelsen & Aptroot, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Aptroot and Lücking (2016; monograph), Lücking et al. (2017a, c; phylogeny, classification), cultures and sequences are available,

lectotype and iso-lectotype of type: H-ACH 707A; BM-ACH.

Nimbospora Jørg. Koch 1982, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *N. effusa* Jørg. Koch, asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; phylogeny), Chu et al. (2015; phylogeny), sequences are available, holotype of type species J. Koch 387, Herbarium CP, Denmark.

Nimisiostella Calat., Barreno & O.E. Erikss. 1997, *Lecanoromycetes* genera *incertae sedis*, one species, type: *N. lichenicola* Calat., Barreno & O.E. Erikss., lichenized, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species VAB (Lich.) 7546.

Nipholepis Syd. 1935, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *N. filicina* Syd., lichenized, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nipicola K.D. Hyde 1992, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *N. carbospora* K.D. Hyde, asexual morph unknown, saprobes, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Daranagama et al. (2017 morphology, taxonomy, phylogeny, key), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Nipponoparmelia (Kurok.) K.H. Moon, Y. Ohmura & Kashiw. 2010 (= *Parmelia* subgen. *Nipponoparmelia* Kurok. 1994 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *N. laevior* (Nyl.) K.H. Moon, Y. Ohmura & Kashiw., asexual morph unknown, lichenized, terrestrial, Argentina, see Crespo et al. (2010b; taxonomy, phylogeny), Kondratyuk et al. (2013d; new species), Divakar et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Niptera Fr. 1849 (= *Nimbomollisia* Nannf. 1983 *fide* Jaklitsch et al. 2016a), *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, c. ten species, type: *N. lacustris* (Fr.) Fr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Whitton et al. (2012b; morphology), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for type species.

Nipterella Starbäck ex Dennis 1962, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *N. duplex* (Starbäck) Starbäck & Dennis, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nitidochapsa Parnmen, Lücking & Lumbsch 2013, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *N. leprieurii* (Mont.) Parnmen, Lücking & Lumbsch, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Parnmen et al. (2013; genus proposed), Lücking et al. (2017a; classification), cultures and sequences are available.

Nitschkia G.H. Otth ex P. Karst. 1873 (see Species Fungorum 2017 for synonyms), *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, 27 species, type: *N. cupularis* (Pers.) P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type, available specimen of type: CBS H-4803.

Nitschkiopsis Nannf. & R. Sant. 1975, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *N. stictarum* Nannf. & R. Sant., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Niesslia* Auersw.), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), cultures and sequences are unavailable.

Nodobryoria Common & Brodo 1995, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *N. abbreviata* (Müll. Arg.) Common & Brodo, asexual morph unknown, lichenized, terrestrial, North America, Greenland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Divakar et al. (2015; DNA, phylogeny), cultures and sequences are available, voucher specimen of type: St. Clair 52291 (BRY-C).

Nodulosphaeria Rabenh. 1858 (= *Leptosphaeria* subgen. *Pocosphaeria* Sacc. 1883; = *Pocosphaeria* (Sacc.) Berl. 1892 *fide* Species Fungorum 2017), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, c. 52 species, type: *N. hirta* Rabenh., asexual morph coelomycetous, saprobes, terrestrial, aquatic, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; taxonomy), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline, phylogeny), Ariyawansa et al. (2015a; new species, Italy), Li et al. (2015c; new species, phylogeny, asexual morph), Hyde et al. (2016; new species, Italy), Mapook et al. (2016a; new species, revision), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Nohea Kohlm. & Volkm.-Kohlm. 1991, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three

species, type: *N. umiumi* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Abdel-Wahab (2011b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; phylogeny), cultures and sequences are available, holotype of type: J.K. 4847 =01348233, NYBG.

Nomuraea Maubl. 1903, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *N. prasina* Maubl., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Noosia Crous, R.G. Shivas & McTaggart 2011, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *N. banksiae* Crous, R.G. Shivas & McTaggart, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Crous et al. (2011a; morphology, DNA), Wijayawardene et al. (2012, 2014c; outline), holotype and ex-type of the type: CBS H-20587; CPC 17282 =CBS 129526.

Normandina Nyl. 1855, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, three species, type: *N. jungermanniae* (Nyl.) Nyl., asexual morph unknown, lichenized, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Ascomycota*), Kirk et al. (2013; genus accepted), Muggia et al. (2010a; phylogeny), Frisch and Ohmura (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Normanogalla Diederich 2014, *Ostropales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *N. cribriformis* (Norman) Diederich, asexual morph is unknown, lichenicolous, terrestrial, Greenland and Scandinavia, see Diederich et al. (2014; taxonomy), lectotype: O, Norman s.n., sequences are unavailable.

Norrlinia Theiss. & Syd. 1918, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *N. peltigericola* (Nyl.) Theiss. & Syd., asexual morph unknown, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for the type species.

Nosophloea Fr. 1849, *Ascomycota* genera *incertae sedis*, three species, type: need typification, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nothojafnea Rifai 1968, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, two species, type: *N. cryptotricha* Rifai, asexual morph unknown, saprobes, terrestrial, Australia, South America, see Lumbsch and Huhndorf (2010; outline, treated as *Pyronemataceae*), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Nothomitra Maas Geest. 1964, *Geoglossomycetes* genera *incertae sedis*, three species, type: *N. cinnamomea* Maas Geest., asexual morph unknown, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Hustad and Miller (2011; taxonomy), Kirk et al. (2013; genus accepted), Hustad et al. (2013; taxonomy, phylogeny), cultures and sequences are available.

Nothophacidium J. Reid & Cain 1962, *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *N. abietinellum* (Dearn.) J. Reid & Cain, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: DAOM herb. J. Dearness 5748.

Nothophoma Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, six species, type: *N. infossa* (Ellis & Everh.) Q. Chen & L. Cai, coelomycetous, saprobes, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Crous et al. (2016b; new species, phylogeny), Tibpromma et al. (2017b; new data),Wijayawardene et al. (2017; outline), neotype and ex-neotype of the type: CBS H-20145, CBS 123395.

Nothorhytisma Minter, P.F. Cannon, A.I. Romero & Peredo 1998, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, three species, type: *N. nahuelitae* Minter, P.F. Cannon, A.I. Romero & Peredo, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: BAFC.

Nothospora Peyronel 1913, *Ascomycota* genera *incertae sedis*, one species, type: *N. ambigua* Peyronel, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Notocladonia S. Hammer 2003, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *N. cochleata* (Müll. Arg.) S. Hammer, asexual morph unknown, lichenized, terrestrial, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Notolecidea Hertel 1984, *Lecanoromycetes* genera *incertae sedis*, one species, type: *N. subcontinua* (Nyl.) Hertel, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al.

(2017a; classification), cultures and sequences are available.

Notoparmelia A. Crespo, Ferencova & Divakar 2014, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 16 species, type: *N. signifera* (Nyl.) A. Crespo, Ferencova & Divakar, lichenized, Australasia, see Ferencova et al. (2014; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Novomicrothelia Aptroot, M.P. Nelsen & Lücking 2016, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, one species, type: *N. oleosa* (Aptroot) Aptroot, M.P. Nelsen & Lücking, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Aptroot and Lücking (2016; monograph), Lücking et al. (2017a; phylogeny), cultures and sequences are available, holotype of type: F, ISE.

Novozymia W.P. Wu 2005, *Ascomycota* genera *incertae sedis*, one species, type: *N. elegans* W.P. Wu, hyphomycetous, sexual morph unknown, saprobes, terrestrial, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nummospora E. Müll. & Shoemaker 1964, *Ascomycota* genera *incertae sedis*, one species, type: *N. hexamera* E. Müll. & Shoemaker, coelomycetous, sexual morph unknown, saprobes, terrestrial, Switzerland, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nusia Subram. 1995, *Ascomycota* genera *incertae sedis*, two species, type: *N. scheeleae* Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nyctalospora E.F. Morris 1972, *Ascomycota* genera *incertae sedis*, one species, type: *N. compacta* E.F. Morris, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Costa Rica, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nycteromyces Thaxt. 1917 (= *Streblomyces* Thaxt. 1920 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *N. streblidinus* Thaxt., asexual morph unknown, biotrophic, only known from *Strebla wiedemanni*, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nymanomyces Henn. 1899 (= *Synglonium* Penz. & Sacc. 1898 [1897] *fide* Species Fungorum 2017), *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *N. aceris-laurini* Henn., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Nypaella K.D. Hyde & B. Sutton 1992, *Ascomycota* genera *incertae sedis*, two species, type: *N. frondicola* K.D. Hyde & B. Sutton, coelomycetous, sexual morph unknown, saprobes, marine, on intertidal fronds of *Nypa fruticans*, Brunei, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: IMI 348629.

Nyungwea Sérus., Eb. Fisch. & Killmann 2006, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *N. pallida* Sérus., Eb. Fischer & Killmann, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Frisch et al. (2014; phylogeny), sequences are available.

Obconicum Velen. 1939, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: need typification, asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Obeliospora Nawawi & Kuthub. 1990, *Ascomycota* genera *incertae sedis*, three species, type: *O. basispira* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Obolarina Pouzar 1986, *Graphostromataceae*, *Xylariales*, *Sordariomycetes*, two species, type: *O. dryophila* (Tul. & C. Tul.) Pouzar, asexual morph hyphomycetous (rhinocladiella-like), saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Pažoutová et al. (2010; DNA, phylogeny), Mirabolfathy et al. (2013; new species, Iran), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; transferred to *Graphostromataceae*), cultures available for the type: H76.

Obryzum Wallr. 1825, *Obryzaceae*, *Ascomycota* families *incertae sedis*, two species, type: *O. corniculatum* (Hoffm.) Wallr., asexual morph unidentified, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline). This name is to be considered a synonym of *Scytinium* in *Collemataceae*, since it was originally based on *Collema corniculatum* Hoffm., and can only be retained in the sense of a lichenicolous fungus by conservation (see Lücking et al. 2017b).

Obstipipilus B. Sutton 1968, *Ascomycota* genera *incertae sedis*, one species, type: *O. malabaricus* (T.S. Ramakr. & K. Ramakr.) B. Sutton, coelomycetous, sexual morph unknown, pathogens, terrestrial, India, see

Wijayawardene et al. (2012, 2016b; outline, morphology), cultures and sequences are unavailable, holotype of the type: IMI 110502.

Obstipispora R.C. Sinclair & Morgan-Jones., 1979, *Ascomycota* genera *incertae sedis*, one species, type: *O. chewaclensis* R.C. Sinclair & Morgan-Jones, sexual morph unknown, submerged decaying leaves, Alabama, see Wijayawardene et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: BPI.

Obtectodiscus E. Müll., Petrini & Samuels 1980, *Loramycetaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *O. aquaticus* E. Müll., Petrini & Samuels, asexual morph unknown, saprobes, terrestrial, Switzerland, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ocala Raja & Shearer 2009, *Natipusillales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *O. scalariformis* Raja & Shearer, submerged wood, Florida, see Raja et al. (2009a, 2015; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phaeosphaeriaceae*), Shearer et al. (2009; phylogeny), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes*), cultures and sequences are available, holotype of type: F121-1, ILL.

Occultibambusa D.Q. Dai & K.D. Hyde 2016, *Occultibambusaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *O. bambusae* D.Q. Dai & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Dai et al. (2017; phylogeny, morphology, sexual and asexual morphs), Zhang et al. (2017b; new species, phylogeny), cultures and sequences are available, holotype and ex-type cultures of type: MFLU 15–1212; MFLUCC 13–0855 =CBS 139960 =MUCL 55882.

Occultitheca J.D. Rogers & Y.M. Ju 2003, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *O. costaricensis* J.D. Rogers & Y.M. Ju, asexual morph unknown, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable, holotype of type: INB Rogers.

Occultocarpon L.C. Mejía & Zhu L. Yang 2012, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *O. ailaoshanense* L.C. Mejía & Zhu L. Yang, asexual morph unknown, saprobes, terrestrial, China, see Mejía et al. (2012; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type cultures of the type: BPI 879253, LCM524.01.

Oceanitis Kohlm. 1977 (= *Ascosalsum* J. Campb., J.L. Anderson & Shearer 2003 *fide* Species Fungorum 2017), *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, four species, type: *O. scuticella* Kohlm., asexual morph unknown, saprobes, freshwater or marine, worldwide, see Dupont et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data available for all species, holotype of type: J.K. 2971a, not found in NYBG.

Ocellomma Ertz & Tehler 2015, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *O. picconianum* (Bagl.) Ertz & Tehler, sexual morph with apothecioid ascomata, lichenized, terrestrial, Mediterranean, see Ertz et al. (2014b; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available, lectotype and ex-type strain of type: Ertz 17143; 17132.

Ocellularia G. Mey. 1825 (see Species Fungorum 2017 for synonyms), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 400 species, type: *O. obturata* (Ach.) Spreng., asexual morph unknown, lichenized fungi, terrestrial, tropical, see Mangold et al. (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; phylogeny), Sipman et al. (2012; key, Costa Rica), Kirk et al. (2013; genus accepted), Lücking (2014; key), Lücking et al. (2014, 2017a; classification, phylogeny), cultures and sequences are available.

Ochotrichobolus Kimbr. & Korf 1983, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *O. polysporus* Kimbr. & Korf, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: CUP 59844.

Ochrocladosporium Crous & U. Braun 2007, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, three species, type: *O. elatum* (Harz) Crous & U. Braun, hyphomycetous, terrestrial, Africa, Europe, see Hyde et al. (2011; outline), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Ochroconis de Hoog & Arx 1974, *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, 25 species, type: *O. constricta* (E.V. Abbott) de Hoog & Arx, asexual morph hyphomycetous, saprobes, opportunistic pathogens on human and animals, terrestrial, worldwide, see Ge et al. (2012; human pathogen), Giraldo et al. (2014b; new species), Machouart et al. (2014; phylogeny), Samerpitak et al. (2014, 2015; human and animal pathogens, phylogeny), Wijayawardene et al. (2014c, 2017; outline), Crous et al. (2015e, 2016a; new species, phylogeny), cultures and sequences are available, available specimen and cultures for type: CBS H-15203; CBS 211.53, CBS 202.27.

Ochrolechia A. Massal. 1852 (= *Korkir* Adans. 1763 *fide* Species Fungorum 2017), *Ochrolechiaceae*, *Pertusariales*, *Lecanoromycetes*, 60 species, type:

O. tartarea (L.) A. Massal., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Aptroot and Aslan (2012; new records), Kirk et al. (2013; genus accepted), Ertz et al. (2016a; taxonomy), sequence are available for the type.

Ochronectria Rossman & Samuels 1999, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *O. calami* (Henn. & E. Nyman) Rossman & Samuels, asexual morph unknown, saprobes, terrestrial, Asia, South America, see Guu et al. (2010; Taiwan), Pinruan et al. (2010; Thailand), Li et al. (2016a; new species), cultures and sequences are available, holotype and culture data unavailable.

Ocostaspora E.B.G. Jones, R.G. Johnson & S.T. Moss 1983, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *O. apilongissima* E.B.G. Jones, R.G. Johnson & S.T. Moss, asexual morph unknown, saprobes, marine, Wales, Denmark, temperate, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; DNA, phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ocotomyces H.C. Evans & Minter 1985 (= *Uyucamyces* H.C. Evans & Minter *fide* Johnston et al. 2014b), *Leotiomycetes* genera *incertae sedis*, one species, type: *O. parasiticus* H.C. Evans & Minter, asexual morph formerly named in *Uyucamyces*, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, holotype of type: IMI 286340.

Octopodotus Kohlm. & Volkm.-Kohlm. 2003, *Ascomycota* genera *incertae sedis*, one species, type: *O. stupendous* Kohlm. & Volkm.-Kohlm, coelomycetous, sexual morph unknown, saprobes, marine, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Octospora Hedw. 1789 (= *Humaria* (Fr.) Boud. 1885; = *Humarina* Seaver 1927; = *Leucoloma* Fuckel 1870 [1869-70]; = *Peziza* trib. Humaria Fr. 1822; = *Pseudocenangium* A. Knapp 1924 *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizales*, c. 60 species, type: *O. leucoloma* Hedw., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Octosporella Döbbeler 1980, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, nine species, type: *O. jungermanniarum* (P. Crouan & H. Crouan) Döbbeler, asexual morph unknown, on mosses and liverworts, terrestrial, Europe, Venezuela, see Lumbsch and Huhndorf (2010; outline), Stenroos et al. (2010; DNA), Döbbeler (2011; new species, Costa Rica and French Guiana), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Octosporopsis U. Lindem. & M. Vega 2014, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, nine species, type: *O. nicolai* U. Lindemann, M. Vega & T. Richter, asexual morph unknown, saprobes, terrestrial, Europe, see Lindemann et al. (2014; taxonomy, phylogeny), sequences are available, voucher specimen for type: MV20130205-1.

Oculimacula Crous & W. Gams 2003 (= *Helgardia* Crous & W. Gams 2003 *fide* Johnston et al. 2014b), *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *O. yallundae* (Wallwork & Spooner) Crous & W. Gams, asexual morph formerly named in *Helgardia*, saprobes, pathogens, terrestrial, Germany, Australia, France, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype of the type species unavailable.

Odontodictyospora Mercado 1984, *Ascomycota* genera *incertae sedis*, one species, type: *O. comasii* Mercado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Odontotrema Nyl. 1858, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, c. seven species, type: *O. phacidioides* Nyl., asexual morph unknown, lichenized, temperate, see Baloch et al. (2010; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Zhurbenko (2010a; new species), sequences are available.

Oedocephalum Preuss 1851 (= *Amblyosporiopsis* Fairm. 1922; = *Sporocephalum* G. Arnaud 1952 *fide* Species Fungorum 2017), *Pezizaceae*, *Pezizales*, *Pezizomycetes*, c. 23 species, type: *O. elegans* Preuss, hyphomycetous, sexual morph unknown, Nematode trapping, in soil, terrestrial, aquatic, Asia, Europe, see Davison et al. (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Oedohysterium E.W.A. Boehm & C.L. Schoch 2009, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, three species, type: *O. insidens* (Schwein.) E. Boehm & C.L. Schoch, saprobes, terrestrial, North and South America, Europe, South Africa, China, see Boehm et al. (2009a, b; generic review), Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Oedothea Syd. 1930, *Ascomycota* genera *incertae sedis*, one species, type: *O. vismiae* Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Oevstedalia Ertz & Diederich 2004, *Ascomycota* genera *incertae sedis*, one species, type: *O. antarctica* (C.W. Dodge) Ertz & Diederich, sexual morph perithecioid, asexual morph represented by true ascoconidia, lichenized, on wood, rock, detritus and whale bones, Antarctica, probably endemic, first lichenized ascomycete known to produce true ascoconidia, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of the type: Follmann 14173 (FH-Dodge).

Ogataea Y. Yamada, K. Maeda & Mikata 1994, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, 40 species, type: *O. minuta* (Wickerham) Y. Yamada, K. Maeda & Mikata, asexual reproduction is by multilateral budding, saprophytic, soil, flowers, tree leaves, tree sap, rotted wood, insect frass in trees and other plants, animal faeces, fruit of osage orange, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Ohleria Fuckel 1868, *Ohleriaceae*, *Pleosporales*, *Dothideomycetes*, 13 species, type: *O. modesta* Fuckel, asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tian et al. (2015; morphology, nomenclature, phylogeny), Jaklitsch and Voglmayr (2016; taxonomy, phylogeny), cultures and sequences are unavailable, holotype of type species Rhenani exsicc. 2173 present in G.

Ohleriella Earle 1902, *Delitschiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *O. neomexicana* Earle, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Delitschiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Oidiodendron Robak 1932, *Myxotrichaceae*, *Leotiomycetes* families *incertae sedis*, two species, type: *O. fuscum* Robak, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for type: CBS 238.31, MUCL 1057.

Ojibwaya B. Sutton 1973, *Ascomycota* genera *incertae sedis*, one species, type: *O. perpulchra* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Belarus, Canada, Malawi, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: IMI 132708.

Okeanomyces K.L. Pang & E.B.G. Jones 2004, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *O. cucullatus* (Kohlm.) K.L. Pang & E.B.G. Jones, asexual morph hyphomycetous, saprobes, marine, worldwide, Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data available, holotype of type: J.K. 1686 =00966750, NYBG.

Olegblumia S.Y. Kondr., L. Lőkös & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *O. demissa* Flot. ex S.Y. Kondr., L. Lőkös, J. Kim, A.S. Kondr., S.O. Oh & Hur, lichenized, Europe and North America, see Kondratyuk et al. (2015d; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Oleoguttula Selbmann & de Hoog 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *O. mirabilis* Selbmann & de Hoog, hyphomycetous, sexual morph unknown, rock-inhabiting fungus, Antarctica, see Egidi et al. (2014; taxonomy), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c, 2017; outline), type: CBS 136102 =CCFEE 5523, cultures and sequences available.

Oletheriostrigula Huhndorf & R.C. Harris 1996, *Strigulaceae*, *Strigulales*, *Dothideomycetes*, one species, type: *O. papulosa* (Durieu & Mont.) Huhndorf & R.C. Harris, asexual morph unknown, lichenized, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification), cultures and sequence are unavailable.

Olla Velen. 1934 (= *Pseudoolla* Velen. 1934 *fide* Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, twelve species, type: *O. ulmariae* Velen., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Olpitrichum G.F. Atk. 1894, *Ascomycota* genera *incertae sedis*, three species, type: *O. carpophilum* G.F. Atk., hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Ombrophila Fr. 1849 (= *Haplocybe* Clem. 1909; = *Kubickia* Svrček 1957 *fide* Species Fungorum 2017), *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, eleven species, type: *O. violacea* (Hedw.) Fr., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus

accepted), Osmundson et al. (2013; DNA), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Omega B. Sutton & Minter 1988, *Ascomycota* genera *incertae sedis*, one species, type: *O. coenobiticum* B. Sutton & Minter, coelomycetous, sexual morph unknown, saprobes, terrestrial, Greece, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type species IMI 326014.

Ommatomyces Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1995, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, three species, type: *O. coronatus* Kohlm., Volkm.-Kohlm. & O.E. Erikss., asexual morph unknown, saprobes, marine or terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMS JK5509.

Omnidemptus P.F. Cannon & Alcorn 1994, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *O. affinis* P.F. Cannon & Alcorn, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of the type: BRIP 17195.

Omphalodium Meyen & Flot. 1843, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, four species, type: *O. pisacomense* Meyen & Flot., asexual morph unknown, lichenized, terrestrial, North and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Divakar et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Omphalora T.H. Nash & Hafellner 1990, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *O. arizonica* (Tuck. ex Willey) T.H. Nash & Hafellner, asexual morph unknown, lichenized, terrestrial, North America, see Crespo et al. (2010b; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Omphalospora Theiss. & Syd. 1915(= *Placosphaerella* Pat. 1897; = *Plectosphaerella* Kirschst. 1938; = *Plectosphaerina* Kirschst. 1938 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, two species, type: *O. stellariae* (Lib.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Oncocladium Wallr. 1833 (= *Actinodendron* G.F. Orr & Kuehn 1963 *fide* Species Fungorum 2017), *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *O. flavum* Wallr., hyphomycetous, sexual morph unknown, soil borne, Europe, Canada, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and cultures are unavailable.

Oncopodiella G. Arnaud ex Rifai 1965, *Dothideomycetes* genera *incertae sedis*, 14 species, type: *O. trigonella* (Sacc.) Rifai, hyphomycetous, soil borne, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), cultures and sequences are unavailable, cultures available for the type: CBS 126413, MUCL 52643.

Oncopodium Sacc. 1904, *Ascomycota* genera *incertae sedis*, twelve species, type: *O. antoniae* Sacc. & D. Sacc., hyphomycetous, soil borne, Europe and North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Oncospora Kalchbr. 1880, *Ascomycota* genera *incertae sedis*, eight species, type: *O. bullata* Kalchbr. & Cooke, coelomycetous, widespread, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Oncosporella P. Karst. 1887, *Ascomycota* genera *incertae sedis*, one species, type: *O. punctiformis* P. Karst. 1887, coelomycetous, Finland, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Oncostroma Bat. & Marasas 1966, *Ascomycota* genera *incertae sedis*, one species, type: *O. toddaliae* Bat. & Marasas, hyphomycetous, South Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ondiniella E.B.G. Jones, R.G. Johnson & S.T. Moss 1984, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *O. torquata* (Kohlm.) E.B.G. Jones, R.G. Johnson & S.T. Moss, asexual morph unknown, saprobes on wood, marine, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Onychocola Sigler 1990, *Arachnomycetaceae*, *Arachnomycetales*, *Eurotiomycetes*, five species, type: *O. canadensis* Sigler, human pathogens, widespread, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, UTMB 3250.

Onychophora W. Gams, P.J. Fisher & J. Webster 1984, *Ascomycota* genera *incertae sedis*, one species, type:

O. coprophila W. Gams, P.J. Fisher & J. Webster, hyphomycetous, sexual morph unknown, coprophilous (rabbit dung), terrestrial, UK, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: CBS 1740.

Onygena Pers. 1800 (= *Piligena* Schumach. 1803; = *Sphaeropus* Paulet 1808 *fide* Species Fungorum 2017), *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *O. equina* (Willd.) Pers., asexual morph unknown, on feathers, bones, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Huang et al. (2015b; DNA, protein degrading taxa), cultures and sequences are available, cultures available for the type species (Huang et al. 2013), type specimen of type species CBS H-15271.

Onygenopsis Henn. 1910, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *O. engleriana* Henn., asexual morph unknown, saprobes, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Oomyces Berk. & Broome 1851 (= *Coscinaria* Ellis & Everh. 1886 *fide* Species Fungorum 2017), *Acrospermaceae*, *Acrospermales*, *Dothideomycetes*, ten species, type: *O. carneoalbus* (Lib.) Berk. & Broome, asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable, need generic revision.

Oosporidium Stautz 1931, *Saccharomycetes* genera *incertae sedis*, two species, type: *O. margaritiferum* Stautz, saprobes, terrestrial, Europe and North America, Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for type species CBS 2531, ATCC 10676, CCRC 21536, DSM 70351, IFO 1208, NRRL Y-1519, VKM Y-816.

Oothyrium Syd. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *O. butyrospermi* Syd., coelomycetous, sexual morph unknown, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Opegrapha Ach. 1809 (see Species Fungorum 2017 for synonyms), *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, but strongly polyphyletic, 300 species, type: *O. vulgata* (Ach.) Ach., asexual morph unknown, lichenized, saprobes, lichenicolous, terrestrial, worldwide, see Ertz et al. (2009; DNA), Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Ophidiomyces Sigler, Hambl. & Paré 2013, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *O. ophiodiicola* (Guarro, Deanna A. Sutton, Wickes & Rajeev) Sigler, Hambleton & Paré, asexual morph unknown, pathogens on snakes, Northern America, see Sigler et al. (2013; taxonomy, phylogeny), Allender et al. (2015; pathogens), cultures and sequences are available, cultures available for the type species UAMH 10717 (Sigler et al. 2013).

Ophiobolus Riess 1854 (= *Leptosphaeriopsis* Berl. 1892 *fide* Species Fungorum 2017), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *O. disseminans* Riess, asexual morph coniothyrium-like; phoma-like, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; taxonomy), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Ophioceras Sacc. 1883, *Ophioceraceae*, *Magnaporthales*, *Sordariomycetes*, 39 species, type: *O. dolichostomum* (Berk. & M.A. Curtis) Sacc., saprobes, aquatic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hu et al. (2012b; new species), Kirk et al. (2013; genus accepted), Klaubauf et al. (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ophiociliomyces Bat. & I.H. Lima 1955, *Ascomycota* genera *incertae sedis*, one species, type: *O. bauhiniae* Bat. & I.H. Lima, asexual morph unknown, from living leaves, tropical, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded the genus from *Meliolaceae*), cultures and sequences are unavailable.

Ophiocordyceps Petch 1931 (= *Cordycepioideus* Stifler 1941 *fide* Index Fungorum 2017), *Ophiocordycipitaceae*, *Hypocreales*, *Sordariomycetes*, c. 200 species, type: *O. blattae* (Petch) Petch, asexual morph acremonium-like, on insects, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Evans et al. (2011; new species), Kirk et al. (2013; genus accepted), Wen et al. (2013, 2014, 2016a, b; new species, phylogeny), Araújo et al. (2015; new species), Ban et al. (2015; new species), Kobmoo et al. (2015; new species), Sanjuan et al. (2015; new species), Spatafora et al. (2015; new species, nomenclature), Maharachchikumbura et al. (2015b, 2016b; outline), Crous et al. (2016a; new species), cultures and sequences are available.

Ophiodeira Kohlm. & Volkm.-Kohlm. 1988, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *O. monosemeia* Kohlm. & Volkm.-Kohlm., marine, Caribbean, see Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; outline, marine),

Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences available.

Ophiodiaporthe Y.M. Ju, H.M. Hsieh, C.H. Fu, C.Y. Chen & T.T. Chang 2013, *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *O. cyatheae* Y.M. Ju, H.-M. Hsieh, C.H. Fu, C.Y. Chen & T.T. Chang, asexual morph coelomycetous, pathogens, terrestrial, Taiwan, see Fu et al. (2013; phylogeny, taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype and ex-type strain of type: YMJ1364; CRC 34961.

Ophiodothella (Henn.) Höhn. 1910 (= *Microphiodothis* Speg. 1919 [1918]; = *Ophiodothis* subgen. *Ophiodothella* Henn. 1904; = *Rhopographina* Theiss. & Syd. 1915; = *Scolecodothis* Theiss. & Syd. 1914 *fide* Species Fungorum 2017), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, 31 species, type: *O. atromaculans* (Henn.) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hanlin and González (2013; new species), Fu et al. (2013; DNA), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ophiognomonia (Sacc.) Speg. 1896 (= *Gnomonia* subgen. *Ophiognomonia* Sacc. 1882; = *Ophiognomonia* (Sacc.) Sacc. 1899 *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, 46 species, type: *O. melanostyla* (DC.) Sacc., asexual morph unknown, endophytes, pathogens, saprobes, primarily temperate and rarely subtropics, worldwide, see Lumbsch and Huhndorf (2010; outline), Walker et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Ophioirenina Sawada & W. Yamam. 1959, *Dothideomycetes* genera *incertae sedis*, one species, type: *O. theae* Sawada & W. Yamam., asexual morph unknown, from leaves, terrestrial, India, Taiwan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; outline, excluded the genus from *Meliolaceae* and placed in *Dothideomycetes*), cultures and sequences are unavailable.

Ophiomassaria Jacz. 1894, *Sordariomycetes* genera *incertae sedis*, one species, type: *O. selenospora* (G.H. Otth) Jacz., asexual morph unknown, saprobes or endophytes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ophiomeliola Starbäck 1899, *Sordariomycetes* genera *incertae sedis*, four species, type: *O. lindmanii* Starbäck, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Hongsanan et al. (2015d; accepted as a genus in *Sordariomycetes*), cultures and sequences are unavailable.

Ophionectria Sacc. 1878 (= *Antipodium* Piroz. 1974 *fide* Rossman et al. 2016a), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *O. trichospora* (Berk. & Broome) Sacc., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available, type specimen and cultures available for the type: CBS H-6331; CBS 109876.

Ophioparma Norman 1852 (= *Haematommatomyces* Cif. & Tomas. 1953; = *Ophioparma* Norman 1853 *fide* Species Fungorum 2017), *Ophioparmaceae*, *Umbilicariales*, *Lecanoromycetes*, two species, type: *O. ventosa* (L.) Norman, asexual morph unknown, saprobes, terrestrial, tropical, see Khare et al. (2010; taxonomy, India), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Le Pogam et al. (2016; taxonomy), Lücking et al. (2017a; classification), cultures available for the type: AFTOL-ID 1694.

Ophioparodia Petr. & Cif. 1932, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *O. pulchra* Petr. & Cif., asexual morph unknown, saprobes, terrestrial, West Indies, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ophiorosellinia J.D. Rogers, A. Hidalgo, F.A. Fernández & Huhndorf 2004, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *O. costaricensis* J.D. Rogers, A. Hidalgo, F.A. Fernández & Huhndorf, asexual morph unknown, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable, holotype of the type: USJ72848.

Ophiosira Petr. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *O. austriaca* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ophiosphaerella Speg. 1909, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, ten species, type: *O. graminicola* Speg., asexual morph wojnowicia-like,

saprobes, terrestrial, aquatic, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; taxonomy), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline, phylogeny), Ariyawansa et al. (2015a; new species, phylogeny), cultures and sequences are available.

Ophiostoma Syd. & P. Syd. 1919 (= *Europhium* A.K. Parker 1957; = *Linostoma* Höhn. 1918 *fide* Species Fungorum 2017), *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, c. 230 species, type: *O. piliferum* (Fr.) Syd. & P. Syd., saprobes, worldwide, see Linnakoski et al. (2008, 2010; new species), Kamgan et al. (2010, 2012; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Romón et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Oplothecium Syd. & P. Syd. 1923, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, two species, type: *O. arecae* Syd. & P. Syd., asexual morph unknown, saprobes, Austria, see Kirk et al. (2008; treated as a synonym of *Neorehmia*), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Orbicula Cooke 1871 (= *Anixia* H. Hoffm. 1862; = *Mycogala* Rostaf. ex Sacc. 1884 *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *O. cyclospora* Cooke, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Orbilia Fr. 1836 (= *Dicranidion* Harkn. 1885; = *Pedilospora* Höhn. 1902 *fide* Baral et al. 2015; see Species Fungorum 2017 for additional synonyms), *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, c. 75 species, type: *O. leucostigma* (Fr.) Fr., asexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Zhang et al. (2009f; new species, China), Lumbsch and Huhndorf (2010; outline), Su et al. (2011b; new species, China), Quijada et al. (2013; new species, Spain), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Orbiliopsis (Sacc. & D. Sacc.) Syd. & P. Syd. 1924 (= *Orbilia* subgen. *Orbiliopsis* Sacc. & D. Sacc. 1906 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *O. coleosporioides* (Sacc.) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available but lacking for the type species.

Orbimyces Linder 1944, *Lulworthiaceae*, *Lulwothiales*, *Sordariomycetes*, one species, type: *O. spectabilis* Linder, sexual morph unknown, hyphomycetous, marine, see Jones et al. (2008; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; phylogeny, outline), cultures and sequences are available, holotype: CBS H-15318.

Orbiocrella D. Johnson, G.H. Sung, Hywel-Jones & Spatafora 2009, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *O. petchii* (Hywel-Jones) D. Johnson, G.H. Sung, Hywel-Jones & Spatafora, asexual morphs unknown, on insects, terrestrial, Thailand, see Johnson et al. (2009; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, nomenclature), cultures and sequences are available.

Orcadia G.K. Sutherl. 1914, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *O. ascophylli* G.K. Sutherl., asexual morph unknown, marine, on brown algae, UK, Norway, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Pezizales*), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), cultures and sequences are unavailable.

Orceolina Hertel 1970 (= *Urceolina* Tuck. 1875 *fide* Species Fungorum 2017), *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, two species, type: *O. kerguelensis* (Tuck.) Hertel, asexual morph unknown, lichenized, terrestrial, subantarctica islands, see Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Kantvilas et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Orcularia (Malme) Kalb & Giralt 2011, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, four species, type: *O. insperata* (Nyl.) Kalb & Giralt, asexual morph present (in the original description, authors mentioned that genus has filiform conidia), lichenized, terrestrial, worldwide, see Kalb and Giralt (2011; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Orientophila Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, four species, type: *O. loekoesii* (S.Y. Kondr. & J.S. Hur) Arup, Søchting & Frödén, asexual morph unknown, lichenized, terrestrial, worldwide, see Arup et al. (2013; taxonomy, phylogeny), Kondratyuk et al. (2014, 2016a, b; new species, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Ormomyces I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *O. clivinae* (Thaxt.) I.I. Tav., asexual morph unknown, biotrophic, terrestrial, Africa, Indonesia, see Lumbsch and

Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Oropogon Th. Fr. 1861 (= *Atestia* Trevis. 1861 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 30 species, type: *O. loxensis* (Fée) Th. Fr., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Leavitt et al. (2012; diversity in Neotropical), Kirk et al. (2013; genus accepted), Divakar et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, voucher specimen for the type: Nelson 4197A (F).

Orphanocoela Nag Raj 1989, *Ascomycota* genera *incertae sedis*, three species, type: *O. calamagrostidis* (H.C. Greene) Nag Raj, coelomycetous, sexual morph unknown, pathogens, terrestrial, USA, Africa, Colombia, Mexico, Nicaragua, Mexico, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; morphology), cultures and sequences are unavailable, holotype of the type species unavailable.

Orphniospora Körb. 1874 (= *Orphniosporomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Elixiaceae*, *Umbilicariales*, *Lecanoromycetes*, three species, type: *O. groenlandica* Körb., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bilovitz and Mayrhofer (2014; new records in Vorarlberg, Australia), cultures and sequences are unavailable.

Orphnodactylis Malloch & A. Mallik 1998, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, 31 species, type: *O. kalmiae* Malloch & A. Mallik, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Orromyces B. Sur & G.R. Ghosh 1987, *Gymnoascaceae*, *Onygenales*, *Eurotiomycetes*, four species, type: *O. spiralis* B. Sur & G.R. Ghosh, asexual morph chrysosporium-like, saprobes, from soil, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Orthobellus A.A. Silva & Cavalc. 1973, *Dothideomycetes* genera *incertae sedis*, three species, type: *O. leguminosarum* A.A. Silva & Cavalc., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Schizothyriaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Schizothyriaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Schizothyriaceae*), Phookamsak et al. (2016; taxonomy, transferred to *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Oscarbrefeldia Holterm. 1898, *Saccharomycetes* genera *incertae sedis*, one species, type: *O. pellucida* Holterm., information unavailable, see Kirk et al. (2008, 2013; genus accepted in *Saccharomycetes*) cultures and sequences are unavailable.

Osoriomyces Terada 1981, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *O. rhizophorus* Terada, asexual morph unknown, biotrophic, terrestrial, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ostracoderma Fr. 1825, *Ascomycota* genera *incertae sedis*, three species, type: *O. pulvinatum* Fr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Ostracodermidium Mukerji 1973, *Ascomycota* genera *incertae sedis*, one species, type: *O. serpentinum* (J.N. Rai & J.P. Tewari) Mukerji, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ostreichnion Duby 1861 (= *Ostreion* Sacc. 1883 *fide* Species Fungorum 2017), *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, three species, type: *O. americanum* Duby, asexual morph unknown, saprobes, terrestrial, Atlantic, China, see Boehm et al. (2009a, b; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Ostreola Darker 1963, *Mytilinidiaceae*, *Mytilinidiales*, *Dothideomycetes*, twelve species, type: *O. consociata* Darker, asexual morph septonema-like, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mytilinidiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ostropa Fr. 1825, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *O. barbara* (Fr.) Nannf., asexual morph unknown, lichenized, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), available specimen and cultures for the type: CBS H-15322; AFTOL-ID 77.

Ostropella (Sacc.) Höhn. 1918, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, five species, type: *O. albocincta* (Berk. & M.A. Curtis) Höhn., asexual morph unknown, saprobes, worldwide, see Lumbsch and

Huhndorf (2010; outline, treated as *Pleosporales*, genera *incertae sedis*), Hyde et al. (2013; accepted as a genus in *Platystomaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Oswaldina Rangel 1921, *Ascomycota* genera *incertae sedis*, one species, type: *O. icarahyensis* Rangel, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Phyllachoraceae*), Wijayawardene et al. (2017; not accepted in *Phyllachoraceae*), cultures and sequences are unavailable.

Otidea (Pers.) Bonord. 1851 (= *Cochlearia* (Cooke) Lambotte 1887 [1888]; = *Flavoscypha* Harmaja 1974; = *Otidea* subgen. *Pseudotis* Boud. 1885; = *Peziza* †† Otidea Pers. 1822; = *Peziza* sect. Cochleate Fr. 1822; = *Peziza* subgen. *Cochlearia* Cooke 1879; = *Pseudotis* (Boud.) Boud. 1907 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 40 species, type: *O. onotica* (Pers.) Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Carbone and Van Vooren (2011; new species), Kirk et al. (2013; genus accepted), Olariaga et al. (2015; taxonomy, monograph), cultures and sequences are available, epitype and cultures are available for the type species KH.10.284 (S - epitype); KH.10.284.

Otthia Nitschke ex Fuckel 1870 (= *Otthia* subgen. *Otthiella* Sacc. 1882; = *Otthiella* (Sacc.) Sacc. & D. Sacc. 1905 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, eleven species, type: *O. spiraeae* (Fuckel) Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available, cultures available for the type: HKUCC 10896 (unpublished).

Otwaya G.W. Beaton 1978, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, twelve species, type: *O. verruculospora* G.W. Beaton, asexual morph unknown, saprobes, or endophytes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as a synonym of *Aeruginoscyphus* Dougoud), cultures and sequences are unavailable.

Ovadendron Sigler & J.W. Carmich. 1976, *Ascomycota* genera *incertae sedis*, one species, type: *O. sulphureo-ochraceum* (J.F.H. Beyma) Sigler & J.W. Carmich., hyphomycetous, sexual morph unknown, human pathogen, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Oviascoma Y.J. Yao & Spooner 1996, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *O. paludosum* (Dennis) Y.J. Yao & Spooner, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ovicuculispora Etayo 2010, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *O. parmeliae* Etayo, asexual morph unknown, lichenicolous, terrestrial, tropical, see Etayo (2010a; morphology), cultures and sequences are available.

Ovulinia F.A. Weiss 1940 (= *Ovulitis* N.F. Buchw 1970 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, nine species, type: *O. azaleae* F.A. Weiss, asexual morph formerly named in *Ovulitis*, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are unavailable.

Oxnerella S.Y. Kondr., Lőkös & Hur 2014, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *O. safavidiorum* S.Y. Kondr., Zarei-Darki, Lőkös & Hur, lichenized, see Resl et al. (2016; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type: KW-L 70296.

Oxodeora K.D. Hyde & P.F. Cannon 1999, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *O. petrakii* (Cif.) K.D. Hyde & P.F. Cannon, asexual morph unknown, on living palm leaves, terrestrial, Caribbean, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Oxydothis Penz. & Sacc. 1898 (= *Merrilliopeltis* Henn. 1908; = *Plagiolagynion* Schrantz 1962; = *Plagiothecium* Schrantz 1961 *fide* Species Fungorum 2017), *Oxydothidaceae*, *Amphisphaeriales*, *Sordariomycetes*, c. 35 species, type: *O. grisea* Penz. & Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Konta et al. (2016b; phylogeny, introduced *Oxydothidaceae*), cultures and sequences are available but lacking for the type species.

Paathramaya Subram. 1956, *Ascomycota* genera *incertae sedis*, five species, type: *P. sundara* Subram., hyphomycetous, sexual morph unknown, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype: CBS H-194, need generic revision.

Pachnolepia A. Massal. 1855, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. pruinata* (Pers.) Frisch & G. Thor, lichenized, see Frisch et al. (2014; reinstated), Lücking et al. (2017a; classification), sequences are available, need generic revision.

Pachyascus Poelt & Hertel 1968, *Pachyascaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *P. lapponicus* Poelt & Hertel, asexual morph unknown, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Pachycladina Marvanová 1987, *Ascomycota* genera *incertae sedis*, three species, type: *P. mutabilis* Marvanová, hyphomycetous, sexual morph unknown, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Pachydisca Boud. 1885, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. guernisacii* (P. Crouan & H. Crouan) Boud., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as a synonym of *Discinella* Boud.), cultures and sequences are available but lacking for the type species.

Pachyella Boud. 1907 (= *Gorodkoviella* Vassilkov 1969; = *Peltidium* Kalchbr. 1862; = *Pulvinaria* Velen. 1934 *fide* Species Fungorum 2017), *Pezizaceae*, *Pezizales*, *Pezizomycetes*, 19 species, type: *P. barlaeana* (Bres.) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Healy et al. (2009b; species in USA and Mexico), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Pachypatella Theiss. & Syd. 1915 (= *Apoa* Syd. 1931 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. alsophilae* (Racib.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, Brazil, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype and isotype of type species KRAM?; S F9863.

Pachypeltis Søchting, Arup & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, four species, type: *P. castellana* (Räsänen) Søchting, Frödén & Arup, asexual morph unknown, lichenized, terrestrial, Europe, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Pachyphlodes Zobel 1854 (= *Cryptica* R. Hesse 1884; = *Pachyphloeus* Tul. & C. Tul. 1845 *fide* Jaklitsch et al. 2016a; Species Fungorum 2017), *Pezizaceae*, *Pezizales*, *Pezizomycetes*, 19 species, type: *P. ligericus* Zobel, asexual morph unknown, saprobes, saprobes, terrestrial, worldwide, see Doweld (2013; new combinations), Healy et al. (2015; new species, DNA), cultures and sequences are available.

Pachyphysis R.C. Harris & Ladd 2007, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *P. ozarkana* R.C. Harris & Ladd, asexual morph unknown, on dolomite, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available, holotype and cultures are available for the type species Pacoza51; NY, Harris 44707.

Pachysacca Syd. 1930, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. eucalypti* Syd., asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline, accepted as genus in *Dothideaceae*), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; excluded from *Dothideaceae* and place in *Teratosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pachysolen Boidin & Adzet 1957, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *P. tannophilus* Boidin & Adzet, asexual reproduction is by multilateral budding, saprophytic, extracts of chestnut (*Castanea vesca*) and mimosa (*Acacia mollissima*) for use in leather tanning, France, Germany, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Pachythyrium G. Arnaud ex Spooner & P.M. Kirk 1990, *Trichothyriaceae*, *Dothideomycetes*, families *incertae sedis*, one species, type: *P. parasiticum* (Fabre) G. Arnaud ex Spooner & P.M. Kirk, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Trichothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pachytrype Berl. ex M.E. Barr, J.D. Rogers & Y.M. Ju 1993, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type species: *P. princeps* (Penz. & Sacc.) M.E. Barr, J.D. Rogers & Y.M. Ju, asexual morph cytospora-like, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Paecilomyces Bainier 1907 (= *Byssochlamys* Westling 1909 = *Corollium* Sopp 1912; = *Graphidium* Lindau 1909; = *Spicariopsis* R. Heim 1939 *fide* Rossman et al. 2016a; Species Fungorum 2017), *Thermoascaceae*, *Eurotiales*, *Eurotiomycetes*, c. 50 species, type: *P. variotii* Bainier, hyphomycetous, sexual morph formerly known in *Byssochlamys*, widespread, see Liang et al. (2009b; taxonomy), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures available for type species CBS 102.74, CBS 110431.

Palawania Syd. & P. Syd. 1914, *Palawaniaceae, Dothideomycetes* families, *incertae sedis*, two species, type: *P. grandis* (Niessl) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Mapook et al. (2016d; new species, phylogeny, place in *Palawaniaceae*), cultures and sequences are available.

Palawaniella Doidge 1921 (= *Byliana* Dippen. 1930 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, eight species, type: *P. eucleae* Doidge, asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: PREM 12375.

Palicella Rodr. Flakus & Printzen 2014, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *P. glaucopa* (Hook. f. & Taylor) Rodr. Flakus & Printzen, lichenized, Argentina, Canada, Europe, see Flakus and Printzen (2014; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Paliphora Sivan. & B. Sutton 1985, *Ascomycota* genera *incertae sedis*, six species, type: *P. aurea* Sivan. & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Gusmão et al. (2008; morphology, new species, distribution), Goh et al. (2014b; morphology, new species), Wijayawardene et al. (2017; outline), sequences are available, holotype: IMI 263424g.

Pallidocercospora Crous 2012, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, eight species, type: *P. heimii* (Crous) Crous, hyphomycetous, sexual morph reported, pathogenic, terrestrial, worldwide, see Crous et al. (2012a; morphology; phylogeny), cultures and sequences are available, holotype: PREM 51749 (sexual morph), holotype of the type: PREM 51748 (asexual morph), ex-type strain of type: CPC 760.

Pallidogramme Staiger, Kalb & Lücking 2008 (= *Hemithecium* subgen. *Leucogramma* Staiger 2002 *fide* Species Fungorum 2017), *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, twelve species, type: *P. chrysenteron* (Mont.) Staiger, Kalb & Lücking, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Archer (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2014, 2017b; phylogeny, classification), cultures and sequences are available, holotype of type species PC (Leprieur 23).

Palmiascoma Phook. & K.D. Hyde 2015, *Bambusicolaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. gregariascomum* Phook. & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Liu et al. (2015a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 11–0211, MFLUCC 11–0175.

Palmicola K.D. Hyde 1993, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *P. archontophoenicis* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Australia, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type species, holotype of the type: BRIP 20438.

Palmaria K.D. Hyde, J. Fröhl. & Joanne E. Taylor, **nom. nov.**

= *Palmomyces* K.D. Hyde, J. Fröhl. & Joanne E. Taylor 1998, Sydowia 50(1): 59 (1998) (nom. illegit., Art. 53.1); non *Palmomyces* Maire 1922

Index Fungorum number: IF553238

Xylariaceae, *Xylariales*, *Sordariomycetes*, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, treated as *Clypeosphaeriaceae*), Hongsanan et al. (2017a, b; phylogeny, evolution, treated *Clypeosphaeriaceae* as a synonym of *Xylariaceae*), holotype: HKU (M) 1485, cultures and sequences are unavailable.

Type: *Palmaria montaneus* (K.D. Hyde, J. Fröhl. & Joanne E. Taylor) K.D. Hyde, J. Fröhl. & Joanne E. Taylor, **comb. nov.**

Index Fungorum number: IF553239

=*Palmomyces montaneus* K.D. Hyde, J. Fröhl. & Joanne E. Taylor, Sydowia 50(1): 60 (1998)

Holotype: HKU (M) 1485

See Hyde et al. (1998) for the illustrations and description

Notes: The genus *Palmomyces* K.D. Hyde, J. Fröhl. & Joanne E. Taylor (Hyde et al. 1998) is illegitimate, being a later homonym of *Palmomyces* Maire 1922. Thus, the new name *Palmaria* K.D. Hyde, J. Fröhl. & Joanne E. Taylor, nom. nov. is introduced to replace this illegitimate name.

Pandanicola K.D. Hyde 1994, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *P. calocarpa* (Syd. & P. Syd.) K.D. Hyde, asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Pannaria Delise ex Bory 1828 (= *Amphinomium* Nyl. 1888; = *Lepidogium* Clem. & Shear 1931; = *Lepidoleptogium* A.L. Sm. 1922; = *Pannaria* subgen. *Lepidoleptogium* (A.L. Sm.) P.M. Jørg. 2004; = *Trachyderma* Norman 1853 [1852] *fide* Species Fungorum 2017), *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 60 species, type: *P. rubiginosa* (Thunb.) Delise, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2011; new species), Passo and Calvelo (2011; new species), Elvebakk (2012; new species), Jørgensen and Gjerde (2012; new species), Kirk et al. (2013; genus accepted), Magain and Sérusiaux (2014; phylogeny), cultures and sequences are available.

Pannoparmelia (Müll. Arg.) Darb. 1912 (= *Anzia* sect. *Pannoparmelia* Müll. Arg. 1889 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *P. angustata* (Pers.) Zahlb., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Thell et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Panorbis J. Campb., J.L. Anderson & Shearer 2003, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three species, type: *P. viscosus* (I. Schmidt) J. Campb., J.L. Anderson & Shearer, on debris near sea, Germany, USA, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Pantospora Cif. 1938 (= *Dictyocephala* A.G. Medeiros 1962 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. guazumae* Cif., hyphomycetous, sexual morph unknown, plant pathogenic, terrestrial, see Minnis et al. (2011; morphology, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), cultures and sequences are available, epitype and ex-type of type: BPI 880778; CBS 130299.

Paoayensis Cabanela, Jeewon & K.D. Hyde 2007, *Sordariomycetes* genera *incertae sedis*, one species, type: *P. lignicola* Cabanela, Jeewon & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type species HKU(M) 17516, holotype of type: HKUCC 10927.

Papilionospora V.G. Rao & B. Sutton 1976, *Ascomycota* genera *incertae sedis*, one species, type: *P. aspergilloides* (Speg.) V. Rao & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Myanmar, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Papilionovela Aptroot 1997, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, 17 species, type: *P. albothallina* Aptroot, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable, holotype of type: CBS Aptroot 33014.

Pappimyces B. Sutton & Hodges 1975, *Ascomycota* genera *incertae sedis*, one species, type: *P. hastatus* B. Sutton & Hodges, hyphomycetous, sexual morph unknown, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Papulaspora Preuss 1851 (= *Baryeidamia* H. Karst. 1888; = *Helicosporangium* H. Karst. 1865 *fide* Species Fungorum 2017), *Coronophorales* genera *incertae sedis*, *Sordariomycetes*, 24 species, type: *P. sepedonioides* Preuss, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Ahmed et al. (2016; DNA, phylogeny), cultures and sequences are available, type specimen for type species B.

Papulosa Kohlm. & Volkm.-Kohlm. 1993, *Papulosaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, one species, type: *P. amerospora* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and cultures available for the type species IMS J.K. 5491; AFTOL-ID 748.

Paraaoria R.K. Verma & Kamal 1987, *Ascomycota* genera *incertae sedis*, one species, type: *P. himalayana* R.K. Verma & Kamal, coelomycetous, sexual morph unknown, Nepal, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 294092.

Paraarthrocladium Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *P. amazonense* Matsush, hyphomycetous, sexual morph unknown, Peru, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Matsushima Fungus Collection Kobe 0P-146, need generic revision.

Parabagliettoa Gueidan & Cl. Roux 2009, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, three species, type: *P. dufourii* (DC.) Gueidan & Cl. Roux, asexual morph unknown, lichenicolous, terrestrial, Europe, Asia, see Diederich and Schultz (2009), Gueidan et al. (2009; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available, available specimen and cultures for the type: G; AFTOL-ID 2254.

Parabambusicola Kaz. Tanaka & K. Hiray. 2015, *Parabambusicolaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. bambusina* (Teng) Kaz. Tanaka & K. Hiray., asexual morph unknown, saprobes, terrestrial, Japan, see Tanaka et al. (2015; morphology, phylogeny), cultures and sequences are available.

Parablastocatena Y.D. Zhang & X.G. Zhang 2012, *Ascomycota* genera *incertae sedis*, one species, type: *P. tetracerae* Y.D. Zhang & X.G. Zhang, hyphomycetous, sexual morph unknown, saprobes, terrestrial, China, see Zhang et al. (2012h; taxonomy), Wijayawardene et al. (2017; outline), holotype of the type: HSAUP H3357, cultures and sequences are unavailable.

Paraboeremia Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *P. selaginellae* (Sacc.) Q. Chen & L. Cai, coelomycetous, saprobes, ?pathogens, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), neotype and ex-neotype of the type: HMAS 246693, CBS 122.93.

Paracainiella Lar. N. Vassiljeva 1983, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *P. dryadis* Lar. N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, arctic north-eastern Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable, holotype of type species VLA P-2943.

Paracamarosporium Wijayaw. & K.D. Hyde 2014, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. psoraleae* (Crous & M.J. Wingf.) Wijayaw. & K.D. Hyde, asexual morph coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Africa, USA, see Hyde et al. (2013; accepted in *Didymosphaeriaceae*), Wijayawardene et al. (2014c, d, 2016b; outline, phylogeny), Crous et al. (2015c; new species, phylogeny), Thambugala et al. (2017a, b; new species), cultures and sequences are available, holotype and ex-type cultures available for the type: CBS H-21440; CPC 21632.

Paracapsulospora Konta. & K. D. Hyde 2016, *Sordariomycetidae*, genera *incertae sedis*, one species, type: *P. metroxyli* Konta. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 15-0704, MFLUCC 15-0250.

Paraceratocladium R.F. Castañeda 1987, *Ascomycota* genera *incertae sedis*, six species, type: *P. silvestre* R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paracercospora Deighton 1979, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *P. egenula* (Syd.) Deighton, hyphomycetous, sexual morph unknown, plant pathogenic, terrestrial, see Crous et al. (2012a; morphology; phylogeny), Braun et al. (2013; morphology), cultures and sequences are available, reference specimen and culture of type: CBS H-20836; CPC 12537, holotype and isotype of type species PRE 25999; IMI 89597, genus requires epitypification.

Parachionomyces Thaung 1979, *Ascomycota* genera *incertae sedis*, one species, type: *P. acroconidiellinae* Thaung, asexual morph hyphomycetous, sexual morph unknown, Myanmar, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Parachnopeziza Korf 1978, *Arachnopezizaceae*, *Helotiales*, *Leotiomycetes*, eight species, type: *P. miniopsis* (Ellis) Korf, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paracladophialophora Crous 2016, *Chaetothyriales* genera *incertae sedis*, *Eurotiomycetes*, one species, type: *P. carceris* Crous & Roets, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2016a; new species, phylogeny), holotype and ex-type of the type: CBS H-22865, CPC 27596.

Paracoccidioides F.P. Almeida 1930 (= *Lutziomyces* O.M. Fonseca 1939 *fide* Species Fungorum 2017), *Ajellomycetaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *P. brasiliensis* (Splend.) F.P. Almeida, hyphomycetous, sexual morph unknown, human pathogen, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), de Melo Teixeira et al. (2014; clinical control), cultures and sequences are available.

Paracollema Otálora & Wedin 2014, *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *P. italicum* (B. de Lesd.) Otálora, P.M. Jørg. & Wedin, asexual morph coelomycetous, lichenized, terrestrial, Southern Europe, Northern Africa, see Otálora et al. (2014; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Paraconiothyrium Verkley 2004, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. estuarinum* Verkley & M. da Silva, asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Damm et al. (2008c; taxonomy, phylogeny), de Gruyter et al. (2012; new species), Wijayawardene et al. (2012, 2014c, 2016b; outline, phylogeny, taxonomy), Hyde et al. (2013; accepted in *Didymosphaeriaceae*), Verkley et al. (2014; new species, phylogeny), Ariyawansa et al. (2015a; new species, phylogeny), cultures and sequences are available, holotype and cultures available for the type species CBS H-10528, CCT6596 =CBS 109850.

Paracostantinella Subram. & Sudha 1989 (= *Xenobotrytis* R.F. Castañeda & W.B. Kendr. 1990 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *P. pulchra* Subram. & Sudha, hyphomycetous, sexual morph unknown, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Paracremonium L. Lombard & Crous 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *P. inflatum* L. Lombard & Crous, asexual morph unknown, pathogens, saprobes, terrestrial, tropical, see Lombard et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Lynch et al. (2016; new species, phylogeny), Wijayawardene et al. (2017; outline), holotype and cultures of the type: CBS H-21946; CBS 110348.

Paracryptophiale Kuthub. & Nawawi 1994, *Ascomycota* genera *incertae sedis*, two species, type: *P. kamaruddinii* Kuthub. & Nawawi, hyphomycetous, sexual morph unknown, Malaysia, China, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: KLU 300030.

Paracylindrocarpon Crous, Roets & L. Lombard 2016, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. aloicola* Crous, Roets & L. Lombard., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22613, CPC 27362.

Paracytospora Petr. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *P. salicis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paradendryphiella Woudenberg & Crous 2013, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. salina* (G.K. Sutherl.) Woudenberg & Crous, hyphomycetous, sexual morph unknown, saprobes, France, Europe, see Woudenberg et al. (2013; morphology, phylogeny), Jones et al. (2015; outline, phylogeny), cultures and sequences are available, holotype of the type species and culture ex-type were not mentioned.

Paradendryphiopsis M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, five species, type: *P. cambrensis* M.B. Ellis, hyphomycetous, sexual morph unknown, Europe, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type species IMI 6151c, need generic revision.

Paradictyoarthrinium Matsush. 1996, *Paradictyoarthriniaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. diffractum* Matsush., hyphomycetous, sexual morph unknown, Transvaal, Thailand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Isaka et al. (2015; DNA, secondary metabolites), Liu et al. (2015a; new species, Thailand, phylogeny), Doilom et al. (2017, description), cultures and sequences are available, holotype and ex-type available for the type: Matsushima Fungus Collection Kobe 5A135; MFC-5A135.

Paradidymobotryum C.J.K. Wang & B. Sutton 1984, *Ascomycota* genera *incertae sedis*, one species, type: *P. oblongum* C.J.K. Wang & B. Sutton, asexual morph hyphomycetous, sexual morph unknown, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Paradiplococcium Hern.-Restr. 2017, *Castanediellaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *X. lusitanica* Hern.-Restr., J. Mena & Guarro, hyphomycetous, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Paradiplodia Speg. ex Trotter 1931, *Ascomycota* genera *incertae sedis*, six species, type: *P. aurantiorum* (Speg.) Clem. & Shear, coelomycetous, sexual morph unknown, widespread, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Paradischloridium Bhat & B. Sutton 1985, *Ascomycota* genera *incertae sedis*, one species, type: *P. ychaffrei* Bhat & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, New Zealand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paradiscula Petr. 1941, *Ascomycota* genera *incertae sedis*, one species, type: *P. spuria* (Vestergr.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paradoxa Mattir. 1935, *Tuberaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *P. monospora* Mattir., asexual morph unknown, saprobes, hypogeous, terrestrial, Italy, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list genus), cultures and sequences are available, need generic revision.

Paradoxomyces Matzer 1996, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. nymanii* Matzer, sexual morph with lirellate ascomata, lichenicolous, terrestrial, Indonesia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, holotype of type: Nyman 87b (UPS).

Paraepicoccum Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *P. amazonense* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Peru, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2017a; description, molecular data), cultures and sequences are unavailable.

Parafulvia Kamal, A.N. Rai & Morgan-Jones 1983, *Ascomycota* genera *incertae sedis*, one species, type: *P. indica* Kamal, A.N. Rai & Morgan-Jones., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parafuscosporella J. Yang & K.D. Hyde 2016, *Fuscosporellaceae*, *Fuscosporellales*, *Sordariomycetes*, one species, type: *P. moniliformis* J. Yang, Bhat & K.D. Hyde, hyphomycetous, saprobes, Thailand, see Boonyuen et al. (2016; new species), Yang et al. (2016c; taxonomy, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Paragnomonia Senan. & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. fragariae* (Kleb.) Senan. & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), cultures and sequences are available.

Parahaplotrichum W.A. Baker & Partr. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *P. idahoense* W.A. Baker & Partr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paraharknessia Matsush. 2003, *Ascomycota* genera *incertae sedis*, one species, type: *P. ellipsoidea* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parahyalotiopsis Nag Raj 1976, *Ascomycota* genera *incertae sedis*, one species, type: *P. borassi* (Thaung) Nag Raj., coelomycetous, sexual morph unknown, saprobes, terrestrial, Myanmar, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paraidriella Hern.-Restr. & Crous 2015, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. jambosae* (R.F. Castañeda & W.B. Kendr.) Hern.-Restr. & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Hernández-Restrepo et al. (2016b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Paraingaderia Ertz & Tehler 2011, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. placodioidea* Ertz & Tehler, sexual morph with punctiform to shortly lirelliform ascomata in groups (synascomata), lichenized, terrestrial, Socotra island, see Ertz and Tehler (2011; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available, holotype of type: Tehler 9344 (S).

Parainoa Resl & T. Sprib. 2014, *Baeomycetaceae*, *Baeomycetales*, *Lecanoromycetes*, one species, type:

P. subconcolor (Anzi) Resl & T. Sprib., lichenized, see Resl et al. (2015; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Paralecanographa Ertz & Tehler 2011, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. grumulosa* (Dufour) Ertz & Tehler, lichenicolous (becoming sometimes lichenized), terrestrial, mainly (sub-)tropical, Mediterranean, see Ertz and Tehler (2011; morphology, phylogeny), sequences are available.

Paralecia Brackel, Greiner, Peršoh & Rambold 2015, *Squamarinaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *P. pratorum* Brackel, Greiner, Peršoh & Rambold, asexual morph unknown, lichenized, terrestrial, worldwide, see Liu et al. (2015a; taxonomy, phylogeny), cultures and sequences are available, holotype of the type: M-0045925.

Paraleptosphaeria Gruyter, Verkley & Crous 2012, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. nitschkei* (Rehm ex G. Winter) Gruyter, Aveskamp & Verkley, asexual morph coelomycetous, saprobes, terrestrial, worldwide, see de Gruyter et al. (2012; morphology, phylogeny), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015b; phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available, epitype and ex-epitype of the type: CBS H-20822; CBS 306.51.

Paralethariicola Calatayud, Etayo & Diederich 2001, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *P. aspiciliae* Calat., Etayo & Diederich, asexual morph unknown, lichenicolous, non-lichenized, Italy and Spain, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable, holotype of the type species MA (Fungi) 49914.

Paraliomyces Kohlm. 1959, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. lentifer* Kohlm., asexual morph unknown, saprobes, marine, worldwide, see Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b, 2015; classification), Pang and Jheng (2012a; checklist), Zhang et al. (2012e; morphology), Wijayawardene et al. (2014c; outline), cultures and sequences are available, type specimen of type: CBS H-5921.

Paramassariothea Subram. & Muthumary 1979, *Ascomycota* genera *incertae sedis*, one species, type: *P. falcata* Subram. & Muthumary., coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parameliola Hongsanan, Peršoh & K.D. Hyde 2016, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *P. dimocarpi* Hongsanan & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Saudi Arabia, see Li et al. (2016a; taxonomy, phylogeny), holotype of the type: MFLU 15–0045.

Paramenisporopsis Matsush. 2003, *Ascomycota* genera *incertae sedis*, one species, type: *P. undulosetulata* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Paramicrodochium Hern.-Restr. & Crous 2015, *Microdochiaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *P. gracile* (Mouch. & Samson) Hern.-Restr. & Crous, hyphomycetous, sexual morphs unknown, on rabbit dung, terrestrial, worldwide, see Hernández-Restrepo et al. (2016b; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Paramicrothyrium H.X. Wu & K.D. Hyde 2011, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *P. chinensis* H.X. Wu & K.D. Hyde, saprobes, terrestrial, Philippines, see Wu et al. (2011; taxonomy), Hyde et al. (2013; accepted as a genus in *Microthyriaceae*), cultures and sequences are available, holotype and ex-type of the type: IFRD 8987; IFRDCC2258.

Paramphisphaeria F.A. Fernández, J.D. Rogers, Y.M. Ju, Huhndorf & Umaña 2004, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. costaricensis* F.A. Fernández, J.D. Rogers, Y.M. Ju, Huhndorf & L. Umaña, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2015; accepted as a genus in *Xylariaceae*), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable, holotype of the type: INB 3466410.

Paramycoleptodiscus Crous & M.J. Wingf. 2016, *Acrospermales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. albizziae* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22615, CPC 27552.

Paramycosphaerella Crous & Jol. Roux 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 15 species, type: *P. brachystegia* Crous & Jol. Roux, asexual morph hyphomycetous (zasmidium-like), foliicolous, terrestrial, worldwide, see Crous et al. (2013b; morphology, phylogeny), Quaedvlieg et al. (2014; phylogeny), Guatimosim et al. (2016a, b; phylogeny, new comb.), cultures and sequences are available, holotype and ex-type culture of type: CBS H-21445; CPC 21136.

Paramyrothecium L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, twelve species, type: *P. roridum* (Tode) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, from soil, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), epitype and ex-epitype of the type: CBS H-22438, CBS 357.89.

Paranannizziopsis Sigler, Hambl. & Paré 2013, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, four species, type: *P. australasiensis* Sigler, Hambleton & Paré, asexual morph hyphomycetous, animal pathogens, USA, see Sigler et al. (2013; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype of the type: UAMH 11645, cultures available for the type: UAMH 10439, UAMH 11719.

Paranectria Sacc. 1878 (= *Ciliomyces* Höhn. 1906 *fide* Species Fungorum 2017), *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *P. affinis* (Grev.) Sacc., asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Paraniesslia K.M. Tsui, K.D. Hyde & Hodgkiss 2001, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. tuberculata* K.M. Tsui, K.D. Hyde & Hodgkiss, asexual morph unknown, saprobes, terrestrial, Hong Kong, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype: HKU (M) 4647.

Parapenidiella Crous & Summerell 2012, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *P. tasmaniensis* (Crous & M.J. Wingf.) Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Crous et al. (2012c; morphology; phylogeny), cultures and sequences are available, holotype of the type: PREM 55340.

Parapericonia M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, one species, type: *P. angusii* M.B. Ellis., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa and Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parapericoniella U. Braun, Heuchert & K. Schub. 2005, *Ascomycota* genera *incertae sedis*, one species, type: *P. asterinae* (Deighton) U. Braun, Heuchert & K. Schub., hyphomycetous, terrestrial, fungicolous, Africa, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of type: (K(M) IMI 11851b).

Paraphaeoisaria de Hoog & Morgan-Jones 1978, *Ascomycota* genera *incertae sedis*, one species, type: *P. alabamensis* de Hoog & Morgan-Jones., hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paraphaeomoniella Crous 2015, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, one species, type: *P. capensis* Crous & A.R. Wood, coelomycetous, sexual morph unknown, on living leaves, endophytic, terrestrial, South Africa, see Crous et al. (2015d; taxonomy, phylogeny), cultures and sequences are available, holotype and ex-type culture of type: CBS H-20159; CPC 15416.

Paraphaeosphaeria O.E. Erikss. 1967, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 33 species, type: *P. michotii* (Westend.) O.E. Erikss., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014a; taxonomy, phylogeny), Verkley et al. (2014; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), Liu et al. (2015a; taxonomy, phylogeny), Tanaka et al. (2015; taxonomy, phylogeny), Tibpromma et al. (2017b; new species), Thambugala et al. (2017b, phylogeny, new species), Crous et al. (2017; new species), sequence data available for 12 species, holotype for type species.

Paraphoma Morgan-Jones & J.F. White 1983, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. radicina* (McAlpine) Morgan-Jones & J.F. White, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see de Gruyter et al. (2012; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Quaedvlieg et al. (2013; new species, phylogeny), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), cultures and sequences are available.

Parapithomyces Thaung 1976, *Ascomycota* genera *incertae sedis*, one species, type: *P. brideliae* Thaung., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Myanmar and Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parapleurotheciopsis P.M. Kirk 1982, *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *P. inaequiseptata* (Matsush.) P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, terrestrial, British Isles, Japan, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline),

Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), DNA sequence available, available specimen and cultures for the type: IMI 234741; MUCL 41089.

Paraporpidia Rambold & Pietschm. 1989, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *P. aboriginum* Rambold, asexual morph unknown, lichenized, on soil and boulders, terrestrial, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parapyrenis Aptroot 1991, *Requienellaceae*, *Xylariales*, *Sordariomycetes*, eight species, type: *P. aurora* (Zahlbr.) Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parapyricularia M.B. Ellis 1972, *Ascomycota* genera *incertae sedis*, one species, type: *P. musae* M.B. Ellis & Peregrine., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pararobillarda Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *P. caffra* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, Cape Province, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Parasarcopodium Mel'nik, S.J. Lee & Crous 2004, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *P. ceratocaryi* Mel'nik, S.J. Lee & Crous, hyphomycetous, saprobes, terrestrial, South Africa, see Lombard et al. (2016; phylogeny), Tibpromma et al. (2016c; holomorph), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype and ex-type culture of type: PREM 57603; STE-U 5494.

Parascedosporium Gilgado, Gené, Cano & Guarro 2007, *Microascaceae*, *Microascales*, *Sordariomycetes*, two species, type: *P. tectonae* (C. Booth) Gilgado, Gené, Cano & Guarro, asexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available, available specimen and ex-type strain of the type species CBS H-7195; CBS 127.84.

Paraschismatomma Ertz & Tehler 2011, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. ochroleucum* (Zahlbr.) K. Knudsen, Ertz & Tehler, sexual morph with apothecioid ascomata, lichenized, terrestrial, Californian coast and Baja California, see Ertz and Tehler (2011; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Parascutellinia Svrček 1975, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *P. violacea* (Velen.) Svrček, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type species.

Parasiphula Kantvilas & Grube 2006, *Coccotremataceae*, *Pertusariales*, *Lecanoromycetes*, seven species, type: *P. fragilis* (Hook. f. & Taylor) Kantvilas & Grube, asexual morph unknown, lichenized, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Parasphaeropsis Petr. 1953, *Ascomycota* genera *incertae sedis*, one species, type: *P. shearii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Hawaii, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parastagonospora Quaedvl., Verkley & Crous 2013, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. nodorum* (Berk.) Quaedvl., Verkley & Crous, coelomycetous, pathogenic, saprobes, terrestrial, Germany, Netherlands, Denmark, see Quaedvlieg et al. (2013; taxonomy, phylogeny), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), Wijayawardene et al. (2014c, 2017; outline), Crous et al. (2016a; new species, phylogeny), Li et al. (2015c, 2016a; new species), Thambugala et al. (2017b, new species, phylogeny), culture of type: CBS 110109 (no ex-type cultures).

Parastenella J.C. David 1991 (= *Stenellopsis* Morgan-Jones 1980 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *P. magnoliae* (Weedon) J.C. David, coelomycetous, sexual morph unknown, saprobes, associated with leaf spots, USA, Brazil (Rondônia), Taiwan, see Dornelo-Silva et al. (2008; new species), Wijayawardene et al. (2012, 2017; outline), Kirschner and Chen (2010; new species), cultures and sequences are available but lacking for the type species.

Parasterinopsis Bat. 1960, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, three species, type: *P. sersalisiae* (Hansf.) Bat., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Hongsanan et al. (2014c; taxonomy, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, isotype of type: URM 11923.

Parastigmatea Doidge 1921 (= *Hypostigme* Syd. 1925 *fide* Species Fungorum 2017), *Polystomellaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *P. nervisita* Doidge, sexual morph unknown, widespread (tropical), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Polystomellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable for type species.

Parastigmatellina Bat. & C.A.A. Costa 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. asiatica* Bat. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines and Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parasympodiella Ponnappa 1975, *Parasympodiellaceae*, *Coronophorales*, *Sordariomycetes*, seven species, type: *P. laxa* (Subram. & Vittal) Ponnappa, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Cheewangkoon et al. (2009; new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), cultures and sequences are available, specimens available for the type: IMI 50645, IMI 173095h, cultures available for the type: CBS 102698.

Parateratosphaeria Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *P. bellula* (Crous & M.J. Wingf.) Quaedvl. & Crous, asexual morph unknown, pathogens, terrestrial, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), Crous et al. (2017; new species), cultures and sequences are available, epitype and ex-epitype strain of the type: CBS H-20094; CPC 1821.

Paratetraploa M.K.M. Wong & K.D. Hyde 2002, *Ascomycota* genera *incertae sedis*, one species, type: *P. exappendiculata* M.K.M. Wong, Goh & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, aquatic, Hong Kong, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type species HKU (M) 12646.

Parathyridaria Jaklitsch & Voglmayr 2016, *Thyridariaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *P. ramulicola* Jaklitsch, Fourn. & Voglmayr, asexual morph coelomycetous, saprobes, France, Germany, see Jaklitsch and Voglmayr (2016; taxonomy, phylogeny), Tibpromma et al. (2017b; new species), holotype of the type: WU 36867.

Paratomenticola M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, one species, type: *P. lanceolata* (Cooke) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Paratopeliopsis Mercado-Díaz, Lücking & Parnmen 2014, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *P. caraibica* Mercado-Díaz, Lücking & Parnmen, asexual morph unknown, lichenized, terrestrial, worldwide, see Mercado-Díaz et al. (2014; taxonomy), Lumbsch et al. (2014a, b; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type: Mercado-Díaz 836.

Paratricharia Lücking 1997, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *P. paradoxa* (Lücking) Lücking, asexual morph unknown, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: UPS (114).

Paratricharina Van Vooren, U. Lindemann, M. Vega, Ribes, Illescas & Matočec 2015, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *P. poiraultii* (Boud.) Van Vooren, U. Lindemann, M. Vega, Ribes, Illescas & Matočec, asexual morph unknown, saprobes, terrestrial, Europe, see sequences are available, voucher specimen of the type: U.L. 178-14.

Paratrichoconis Deighton & Piroz. 1972, *Ascomycota* genera *incertae sedis*, four species, type: *P. chinensis* (Hansf.) Deighton & Piroz., hyphomycetous, sexual morph unknown, saprobes or fungicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paratrichophaea Trigaux 1985, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, five species, type: *P. macrocystis* Trigaux, asexual morph unknown, from soil, saprobes, terrestrial, Europe, North America, see Benkert (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available but lacking for the type species.

Paraulocladium R.F. Castañeda 1986, *Ascomycota* genera *incertae sedis*, two species, type: *P. angulosporum* R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parauncinula S. Takam. & U. Braun 2005, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, two species, type: *P. septata* (E.S. Salmon) S. Takam. & U. Braun, biotrophic, obligate plant pathogens, terrestrial, Asia (China, Japan), see Lumbsch and Huhndorf (2010;

outline), Braun and Cook (2012; taxonomy), sequences are available, lectotype of type: TNS-F-214605.

Paravalsa Ananthap. 1990, *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. indica* Ananthap., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Parawiesneriomyces Crous & M.J. Wingf. 2016, *Tubeufiales*, *Wiesneriomycetales*, *Dothideomycetes*, one species, type: *P. syzygii* Crous & M.J. Wingf., hyphomycetous, saprobes, terrestrial, France, see Crous et al. (2016b; taxonomy, phylogeny), Bezerra et al. (2017a; phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22630, CPC 26528.

Parberya C.A. Pearce & K.D. Hyde 2001, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *P. kosciuskoa* C.A. Pearce & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: DAR 28023.

Parencoelia Petr. 1950, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *P. andina* Petr., asexual morph unknown, saprobes, terrestrial, Central America, West Indies, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parenglerula Höhn. 1910, *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, nine species, type: *P. macowaniana* (Thüm.) Höhn., asexual morph unknown, epiphytic, terrestrial, tropical region, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Dai et al. (2014c; morphology), cultures and sequences are unavailable.

Pareutypella Y.M. Ju & J.D. Rogers 1996, *Sordariomycetes* genera *incertae sedis*, one species, type: *P. sulcata* Y.M. Ju & J.D. Rogers, asexual morph unknown, saprobes, terrestrial, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Parmelia Ach. [nom. cons.] 1803 (= *Aspidelia* Stirt. 1900 [1899]; = *Lichen* L. 1753 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 50 species, type: *P. saxatilis* (L.) Ach., lichenized, worldwide, see Crespo et al. (2010a, b; phylogeny), Kirk et al. (2013; genus accepted), Lumbsch and Huhndorf (2010; outline), Divakar et al. (2012, 2013a, b; India, phylogeny), Ferencova et al. (2014; new species), Lücking et al. (2017a; classification), cultures and sequences are available.

Parmeliella Müll. Arg. 1862, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 90 species, type: *P. triptophylla* (Ach.) Müll. Arg., lichenized (with cyanobacteria), terrestrial (saxicolous, corticolous or lignicolous), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ekman et al. (2014; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Parmelina Hale 1974 (= *Parmeliomyces* E.A. Thomas ex Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, seven species, type: *P. tiliacea* (Hoffm.) Hale, lichenized (with green algae), terrestrial (saxicolous, corticolous or lignicolous), Northern Hemisphere with a center of distribution in western North America and Europe, see Crespo et al. (2010a, b; phylogeny), Lumbsch and Huhndorf (2010; outline), Núñez-Zapata et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), sequence data available for six species, including the generic type.

Parmelinella Elix & Hale 1987, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, nine species, type: *P. wallichiana* (Taylor) Elix & Hale, lichenized (with green algae), terrestrial (saxicolous, corticolous or lignicolous), tropical, see Crespo et al. (2010a, b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Benatti (2014; current status), Lücking et al. (2017a; classification), sequence data available only for the type species.

Parmeliopsis (Nyl.) Nyl. 1866 (= *Foraminella* S.L.F. Mey. 1982; = *Parmelia* subgen. *Parmeliopsis* Nyl. 1861 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, eight species, type: *P. ambigua* (Wulfen) Nyl., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; DNA, phylogeny), Lücking et al. (2017a; classification), Mark et al. (2016; DNA, phylogeny), cultures available for the type: AFTOL-ID 199.

Parmostictina Nyl. 1875 (see Species Fungorum 2017 for synonyms), *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, 15 species, type: *S. hirsuta* Mont., lichenized,?, rejected against *Pseudocyphellaria* Vain. 1890, see Moncada et al. (2013a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Parmotrema A. Massal. 1860, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 300 species, type: *P. perforatum* (Jacq.) A. Massal., lichenized, terrestrial (corticolous, saxicolous, terricolous or lignicolous), worldwide, but with the center of distribution in tropical regions, see Crespo et al. (2010a, b; phylogeny), Lumbsch

and Huhndorf (2010; outline), Del-Prado et al. (2011; *Parmotrema reticulatum*), Lendemer and Hodkinson (2012b; phylogeny), Divakar et al. (2013b; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Parmotremopsis Elix & Hale 1987, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *P. antillensis* (Nyl.) Elix & Hale, asexual morph unknown, lichenized, terrestrial, Central America, West Indies, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parmularia Lév. 1846 (= *Clypeum* Massee 1896; = *Pycnographa* Müll. Arg. 1890; = *Schneepia* Speg. 1885 *fide* Species Fungorum 2017), *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, 31 species, type: *P. styracis* Lév., asexual morph unknown, pathogens, epiphytes, terrestrial, Brazil, Paraguay, Uruguay, see Inácio and Cannon (2008; morphology), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Guatimosim et al. (2015; phylogeny), cultures and sequences are available but lacking for type material, holotype and epitype of type: PC; VIC 42447.

Parmulariella Henn. 1904, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. vernoniae* Henn., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, isotype of type: K, NY.

Parmulariopsella Sivan. 1970, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. burseracearum* Sivan., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: IMI 34052.

Parmulariopsis Petr. 1954, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. pulchella* Petr., asexual morph unknown., epiphytes, terrestrial, Malaysia, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, isotype of type: IMI 330018.

Parmulina Theiss. & Syd. 1914, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, six species, type: *P. exsculpta* (Berk.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, neotype of type: K Herb. C.E. Broome 593.

Parodiella Speg. 1880 (= *Diplodiopsis* Henn. 1904; = *Pyrenochaetina* Syd. & P. Syd. 1916 *fide* Species Fungorum 2017), *Parodiellaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *P. perisporioides* (Berk. & M.A. Curtis) Speg., asexual morph unknown, biotrophic, terrestrial, America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parodiellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, available specimen of type: CBS H-15496.

Parodiellina Henn. ex G. Arnaud 1918, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. manaosensis* (Henn.) G. Arnaud, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Paropodia Cif. & Bat. 1956, *Dothideomycetes* genera *incertae sedis*, type: *P. intermedia* Cif. & Bat., data inadequate, see Kirk et al. (2008; treated as a synonym of *Triposporiopsis*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Parorbiliopsis Spooner & Dennis 1986 (= *Eupezizella* Höhn. 1926; = *Orbiliopsis* Höhn. 1926; = *Parorbiliopsis* Spooner & Dennis 1986 [1985]; = *Truncicola* Velen. 1934 *fide* Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *P. minuta* Spooner & Dennis, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parvacoccum R.S. Hunt & A. Funk 1988, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *P. pini* R.S. Hunt & A. Funk, asexual morph unknown, saprobes, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: DAVFP 23419.

Parvomyces Santam. 1995, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. merophysiae* Santam., asexual morph unknown, biotrophic, terrestrial, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Parvoplaca Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, five species, type: *P. tiroliensis* (Zahlbr.) Arup, Søchting & Frödén, asexual morph unknown, lichenized, terrestrial,

worldwide, see Arup et al. (2013; taxonomy, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, culture available for the type: U1289, U1290.

Parvothecium L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. terrestre* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, from soil, terrestrial, Brazil, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: CBS H-4380, CBS 198.89.

Paschelkiella Sherwood 1987, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *P. pini* (Romell) Sherwood, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Paspalomyces Linder 1933, *Ascomycota* genera *incertae sedis*, one species, type: *P. aureus* Linder, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Passalora Fr. 1849, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, c. 250 species, type: *P. bacilligera* Fr. & Mont., hyphomycetous, sexual morph unknown, plant pathogens, terrestrial, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Phengsintham et al. (2013; species in Laos), Moreno-Rico et al. (2014; new species), Braun et al. 2015; new species), Rossman et al. (2016a; new combination), cultures and sequences are available.

Passeriniella Berl. 1890 (= *Santiella* Tassi 1900 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, seven species, type: *P. dichroa* (Pass.) Berl., asexual morph unknown, saprobes, marine habitat, see Suetrong et al. (2009; phylogeny, morphology), Zhang et al. (2009b, 2012e; phylogeny), Jones et al. (2009b, 2015; outline, marine), Alias et al. (2010; diversity), Besitulo et al. (2010; diversity), Lee et al. (2012; checklist), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Passerinula Sacc. 1875 (= *Spegazzinula* Sacc. 1833 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, one species, type: *P. candida* Sacc., asexual morph unknown, saprobes or fungicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Patellaria Fr. 1822 (= *Lecanidion* Endl. 1830 *fide* Species Fungorum 2017), *Patellariaceae*, *Patellariales*, *Dothideomycetes*, twelve species, type: *P. atrata* (Hedw.) Fr., asexual morph unknown, saprobes, terrestrial, temperate, see Schoch et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Patellariaceae*, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; taxonomy), cultures and sequences are available, cultures available for the type: CBS 958.97, BCC 28876, holotype of type: CBS H-17437.

Patellariopsis Dennis 1964, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, five species, type: *P. clavispora* (Berk. & Broome) Dennis, asexual morph unknown, saprobes, terrestrial, Europe, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Patescospora Abdel-Wahab & El-Sharouny 2002, *Aliquandostipitaceae*, *Jahnulales*, *Dothideomycetes*, one species, type: *P. separans* Abdel-Wahab & El-Shar., asexual morph unknown, saprobes, freshwater, Egypt, see Suetrong et al. (2010; phylogeny), cultures and sequences are available, holotype of the type: IMI 386405, ?

Patinella Sacc. 1875 (= *Odontoschizon* Syd. & P. Syd. 1914 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *P. hyalophaea* Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures are available for the type (unpublished).

Patinellaria P. Karst. 1885, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. sanguinea* (Pers.) P. Karst., asexual morph unknown, saprobes, terrestrial, Europe, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Patriciomyces D. Hawksw. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *P. valentinianus* D. Hawksw., hyphomycetous, sexual morph unknown, lichenicolous, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures are sequences unavailable.

Pauahia F. Stevens 1925, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. sideroxyli* F. Stevens, asexual morph unknown, saprobes, terrestrial, Hawaii, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae* and placed in *Dothideomycetes*), cultures and sequences are unavailable.

Paucispora Thambug., Kaz. Tanaka & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. quadrispora* (K. Hiray. & Kaz. Tanaka)

Thambug., Kaz. Tanaka & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Japan, see Thambugala et al. (2015b; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of type: HHUF 27321; MAFF 239455.

Paucithecium Lloyd 1923, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. rickii* Lloyd, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Paulia Fée 1836 (= *Pasithoe* M.J. Decne. 1840 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, ten species, type: *P. pullata* Fée, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available but lack for the type.

Paulkirkia Wijayaw., Wanas., Tangthirasunun, Camporesi & K.D. Hyde 2016, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. arundinis* Wijayaw., Wanas., Tangthirasunun, Camporesi & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2016b, 2017; taxonomy, phylogeny, outline), holotype and ex-type of the type: MFLU 13–0315, MFLUCC 12–0328.

Paurocotylis Berk. 1855, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *P. pila* Berk., asexual morph unknown, from soil, hypogeous, terrestrial, Europe, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wang et al. (2016c; DNA, phylogeny), cultures and sequences are available, voucher specimen of the type: Trappe 12583 (OSC).

Payosphaeria H.Y.M. Leung 1990, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. minuta* H.Y.M. Leung, asexual morph unknown, marine, on wood, mangrove, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: IMI 327472.

Peccania A. Massal. ex Arnold 1858 (= *Corinophoros* A. Massal. 1856; = *Peccaniomyces* Cif. & Tomas. 1953; = *Peccaniopsis* M. Choisy 1949; = *Pleoconis* Clem. 1909 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, eight species, type: *P. coralloides* (A. Massal.) A. Massal., asexual morph unknown, lichenized, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Pectenia P.M. Jørg., L. Lindblom, Wedin & S. Ekman 2014, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, four species, type: *P. plumbea* (Lightf.) P.M. Jørg., L. Lindblom, Wedin & S. Ekman, lichenized, terrestrial, Europe, Africa, mostly along the Atlantic coast, see Ekman et al. (2014; taxonomy), cultures and sequences are available.

Pectinotrichum Varsavsky & G.F. Orr 1971, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *P. llanense* Varsavsky & G.F. Orr, asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence available for the type, available specimen of type: CBS H-7460.

Pedumispora K.D. Hyde & E.B.G. Jones 1992, *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *Pedumispora rhizophorae* K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, mangroves, marine, Republic of Seychelles, Guam, Thailand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Klaysuban et al. (2014; DNA, phylogeny), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data available, holotype of type: BRIP 19201.

Peethambara Subram. & Bhat 1978, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. sundara* Subram. & Bhat, asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Lombard et al. (2016; phylogeny), cultures and sequences are available, ex-type culture of type: CBS 646.77.

Peethasthabeeja P. Rag. Rao 1981, *Ascomycota* genera *incertae sedis*, one species, type: *P. krishna* P. Rag. Rao, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pellionella (Sacc.) Sacc. 1902 (= *Diplodiella* subgen. *Pellionella* Sacc. 1899; = *Pellionella* (Sacc.) Petch 1924 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *P. deformans* Penz. & Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Java, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pellucida Dulym., Sivan., P.F. Cannon & Peerally 2001, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *P. pendulina* Dulym., Sivan., P.F. Cannon & Peerally, asexual morph unknown, saprobes, terrestrial,

Mauritius, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: Mauritius (Dulymamode P6).

Peloronectria Möller 1901, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. vinosa* Möller, asexual morph unknown, South America, see Kirk et al. (2008; treated as nom. dub.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Peltaster Syd. & P. Syd. 1917, *Dothideomycetes* genera *incertae sedis*, seven species, type: *P. hedyotidis* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes or pathogens, terrestrial, Philippines, South America, Slovenia, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Medjedović et al. (2014; new species, phylogeny), cultures and sequences are available but lacking for the type.

Peltasterella Bat. & H. Maia 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. ocoteae* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltasterinostroma Punith. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *P. rubi* Punith., coelomycetous, sexual morph unknown, saprobes, terrestrial, British Isles, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltasteropsis Bat. & H. Maia 1959, *Ascomycota* genera *incertae sedis*, seven species, type: *P. discreta* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltigera Willd. [nom. cons.] 1787 (see Species Fungorum 2017 for synonyms), *Peltigeraceae*, *Peltigerales*, *Lecanoromycetes*, 100 species, type: *P. canina* (L.) Willd., lichenized (green algae or, and cyanobacteria), terrestrial (saxicolous, terricolous, corticolous or lignicolous) or aquatic, worldwide, see Sérusiaux et al. (2009b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014b; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Peltigeromyces Möller 1901 (= *Peltophoromyces* Clem. 1909 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *P. microsporus* Möller, asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; phylogeny), cultures and sequences are available for unidentified species.

Peltistroma Henn. 1904, *Ascomycota* genera *incertae sedis*, one species, type: *P. juruanum* Henn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, lectotype of type: K (Mycotheca Brasiliensis no. 93).

Peltistromella Höhn. 1907, *Ascomycota* genera *incertae sedis*, one species, type: *P. brasiliensis* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltosoma Syd. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *P. freycinetiae* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltostromellina Bat. & A.F. Vital 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. atra* Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Sri Lanka, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltostromopsis Bat. & A.F. Vital 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. artocarpi* Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Sri Lanka, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peltula Nyl. 1853, *Peltulaceae*, *Lichinales*, *Lichinomycetes*, 32 species, type: *P. radicata* Nyl., asexual morph unknown, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), McDonald et al. (2013; DNA, phylogeny), Marques et al. (2013; new species, Portugal), sequences are available.

Peltularia R. Sant. 1944, *Coccocarpiaceae*, *Peltigerales*, *Lecanoromycetes*, three species, type: *P. gyrophoroides* (Räsänen) R. Sant., asexual morph unknown, lichenized, terrestrial, South America, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pemphidium Mont. 1840, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, 17 species, type: *P. nitidum* Mont., coelomycetous, common on palms, terrestrial, South America, Australia, Indonesia, see Lumbsch and

Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, type specimen of type: CBS H-6336.

Pendulispora M.B. Ellis 1961, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. venezuelanica* M.B. Ellis, sexual morph unknown, hyphomycetous, on dead branches, Venezuela, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Penicillifer Emden 1968 (= *Viridispora* Samuels & Rossman 1999 *fide* Maharachchikumbura et al. 2015b, 2016b; Lombard et al. 2016; Rossman et al. 2016a), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, seven species, type: *P. pulcher* Emden, asexual morph hyphomycetous, saprobes, from soil, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Lombard et al. (2016; phylogeny), Rossman et al. (2016a; nomenclature), cultures and sequences are available, type specimen and culture available for type: CBS H-7461; CBS 560.67.

Penicilliopsis Solms 1887 (= *Pseudocordyceps* Hauman 1936; = *Sarophorum* Syd. & P. Syd. 1917 *fide* Species Fungorum 2017), *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, three species, type: *P. clavariiformis* Solms, asexual morph unknown, saprobes, terrestrial, worldwide, see Houbraken and Samson (2011; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Trichocomaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are available, lectotype and culture available for type: Hauman (BR); CBS 761.68.

Penicillium Link 1809 (see Species Fungorum 2017 for synonyms), *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, c. 300 species, type: *P. crustaceum* Link, hyphomycetous, pathogens, saprobes, widespread (common moulds), see Houbraken and Samson (2011; morphology, phylogeny), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Zhou et al. (2016; new species, pollutued soil), Tibpromma et al. (2017b; new species), cultures and sequences available.

Penidiella Crous & U. Braun 2007, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, six species, type: *P. columbiana* Crous & U. Braun, hyphomycetous, sexual morph teratosphaeria-like, pathogens, associated with leaf spots, terrestrial, worldwide, see Crous et al. (2009e; morphology, phylogeny), Crous and Groenewald (2011; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, outline), cultures and sequences are available, epitype and ex-epitype strain of the type: CBS H-9937; CBS 486.80.

Penidiellopsis Sandoval-Denis, Gené, Deanna A. Sutton & Guarro 2016, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. radicularis* Sandoval-Denis, Gené, Deanna A. Sutton & Guarro, hyphomycetous, human pathogen, terrestrial, USA, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22389, CBS 140695.

Pentagenella Darb. 1897 (= *Roccella* sect. *Pentagenella* (Darb.) Follmann 1998 *fide* Species Fungorum 2017), *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *P. fragillima* Darb., lichenized, terrestrial, neotropical, see Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011; new species, phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Penzigomyces Subram. 1992, *Ascomycota* genera *incertae sedis*, 13 species, type: *P. nodipes* (Penz. & Sacc.) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Perelegamyces R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *P. parviechinulatus* W.B. Kendr. & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Perennicordyceps Matočec & I. Kušan 2014, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *P. prolifica* (Kobayasi) Matočec & I. Kušan, asexual morph unknown, South America, see Matočec et al. (2014; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Periamphispora J.C. Krug 1989, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *P. phacelodes* J.C. Krug, asexual morph unknown, on dung, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariales*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Periconia Tode 1791 (= *Cephalotrichum* Berk. ex Sacc. 1886; = *Harpocephalum* G.F. Atk. 1897; = *Pachytrichum* Syd. 1925; = *Sporocybe* Fr. 1825; = *Sporodum* Corda 1837; = *Trichocephalum* Costantin 1888 *fide* Species Fungorum 2017), *Periconiaceae*, *Pleosporales*, *Dothideomycetes*, c. 45 species, type: *P. lichenoides* Tode, hyphomycetous,

terrestrial, aquatic, worldwide, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Jones et al. (2015; outline, marine), Tanaka et al. (2015: phylogeny), Thambugala et al. (2017b, new species, phylogeny), sequence data available.

Periconiella Sacc. 1885 (= *Acrocladium* Petr. 1949; = *Acrodesmis* Syd. 1926 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 70 species, type: *P. velutina* (G. Winter) Sacc., hyphomycetous, sexual morph unknown, plant pathogens, terrestrial, see cultures and sequences are available, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), epitype and ex-epitype of type: CBS H-15612; CBS 101948.

Peridiothelia D. Hawksw. 1985, *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *P. fuliguncta* (Norman) D. Hawksw., asexual morph unknown, on bark, Europe, terrestrial, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pleomassariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, lectotype of type: O.

Periglandula U. Steiner, Leistner & Leuchtm. 2011, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *P. ipomoeae* U. Steiner, E. Leistner & Schardl, asexual morph unknown, on living leaves, terrestrial, Ecuador, Panama, see Steiner et al. (2011; taxonomy, outline), Beaulieu et al. (2015; DNA), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Perigrapha Hafellner 1996, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, four species, type: *P. superveniens* (Nyl.) Hafellner, lichenicolous, terrestrial, Asia, Europe and North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Perischizon Syd. & P. Syd. 1914, *Dothideomycetes* genera *incertae sedis*, three species, type: *P. oleifolium* (Kalchbr. & Cooke) Syd. & P. Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted in *Parmulariaceae*), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; excluded from *Parmulariaceae*), Wijayawardene et al. (2014c; outline, accepted in *Dothideomycetes*), cultures and sequences unavailable, Holotype of type: K (P. MacOwan 7).

Perisporiopsis Henn. 1904 (see Species Fungorum 2017 for synonyms), *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, 17 species, type: *P. struthanthi* Henn., asexual morph unknown, saprobes, endophytes, terrestrial, tropical, see Chaverri and Gazis (2010, 2011; new species, endophytes), Kawada et al. (2010; antitumour compounds), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Peristomialis (W. Phillips) Boud. 1907, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, c. five species, type: *P. berkeleyi* Boud., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Perizomella Syd. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *P. inquinans* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peroneutypa Berl. 1902, *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, 47 species, type: *P. bellula* (Desm.) Berl., asexual morph unknown, saprobes, pathogens, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Dai et al. (2017; morphology, phylogeny), Shang et al. (2017, new species, phylogeny), cultures and sequences are available but lacking for type.

Peroschaeta Bat. & A.F. Vital 1957, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. artocarpi* Bat. & A.F. Vital, asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Perrotia Boud. 1901, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, 19 species, type: *P. flammea* (Alb. & Schwein.) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Monaghan et al. (2009; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny), sequence available for the type.

Persiciospora P.F. Cannon & D. Hawksw. 1982, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *P. moreaui* P.F. Cannon & D. Hawksw., fungicolous, widespread, terricolous, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; position), cultures and sequences are available, holotype of type: K(M)-IMI 238745.

Perthomyces Crous 2017, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. podocarpi* Crous, coelomycetous, sexual morph unknown, saprobes, Australia, see Crous et al. (2017; taxonomy), holotype: CBS H-23122, cultures and sequences are available.

Pertusaria DC. [nom. cons.] 1805, *Pertusariaceae*, *Pertusariales*, *Lecanoromycetes*, 500 species, type: *P. communis* DC., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Perusta Egidi & Sielow 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. inaequalis* Egidi & Sielow, hyphomycetous, sexual morph unknown, rock-inhabiting fungus, Spain, see Egidi et al. (2014; taxonomy), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c, 2017; outline), type: CBS 118271 = TRN272 cultures and sequences available.

Pesotum J.L. Crane & Schokn. 1973 (= *Phialographium* H.P. Upadhyay & WB. Kendr. 1974 *fide* Seifert et al. 2011), *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, seven species, type: *P. ulmi* (M.B. Schwarz) J.L. Crane & Schokn., hyphomycetous, saprobes, pathogens, worldwide, see Kamgan Nkuekam et al. (2008; new species), Grobbelaar et al. (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Pestalopezia Seaver 1942, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *P. brunneopruinosa* (Zeller) Seaver, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pestalotiopsis Steyaert 1949 (= *Discosiopsis* Edward et al. 1972; = *Pestalosphaeria* M.E. Barr 1975; = *Robillarda* Castagne 1845 *fide* Réblová et al. 2016c; Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, c. 300 species, type: *P. maculans* (Corda) Nag Raj, coelomycetous, sexual morph formerly named in *Pestalosphaeria*, saprobes or pathogens on plants, worldwide, see Maharachchikumbura et al. (2011, 2012, 2013, 2014a, b, 2016a, c; phylogeny, morphology), Zhang et al. (2012j, 2013f; species in ornamental plants), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Réblová et al. (2016c; nomenclature), Chen et al. (2017a; new species), 56 species have ex-type sequences.

Pestalozziella Sacc. & Ellis ex Sacc. 1882, *Ascomycota* genera *incertae sedis*, four species, type: *P. inquinans* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Petchiomyces E. Fisch. & Mattir. 1938, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *P. thwaitesii* (Berk. & Broome) E. Fisch. & Mattir., asexual morph unknown, saprobes, terrestrial, North America, Sri Lanka, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peterozyma Kurtzman & Robnett 2010, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *P. toletana* (Socias, C. Ramírez & Peláez) Kurtzman & Robnett, asexual reproduction is by multilateral budding, saprophytic, tanning fluid, insect frass from trees and tree bark, Europe, North America, see Kurtzman and Suzuki (2010; taxonomy), sequences are available.

Petractis Fr. 1845, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, six species, type: *P. exanthematica* (Sm.) Fr., asexual morph unknown, lichenized, terrestrial, worldwide, see Orange (2009a; new species, DNA), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Petrakia Syd. & P. Syd. 1913 (= *Echinosporium* Woron. 1913 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, three species, type: *P. echinata* (Peglion) Syd. & P. Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Asia, see Wijayawardene et al. (2012, 2017; outline), Butin et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), Li et al. (2016a; phylogeny, taxonomy), cultures available for the type: OH 080921.4.

Petrakiella Syd. 1924, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *P. insignis* Syd., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Petrakina Cif. 1932, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. mirabilis* Cif., asexual morph unknown, epiphytes, terrestrial, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, keys, accepted as a genus in *Dothideomycetes*), Wijayawardene et al. (2014c; outline, accepted in *Dothideomycetes*), cultures and sequences unavailable, syntype of type: NY 00936794.

Petrakiopeltis Bat., A.F. Vital & Cif. 1958, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. byrsonimae* Bat., A.F. Vital & Cif., asexual morph unknown, epiphytes, terrestrial, Guyana, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in

Microthyriaceae), Wu et al. (2011; not accepted as *Microthyriaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013; not accepted as a genus in *Microthyriaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*), cultures and sequences are unavailable.

Petrakiopsis Subram. & K.R.C. Reddy 1968, *Ascomycota* genera *incertae sedis*, one species, type: *P. elegans* Subram. & K.R.C. Reddy, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Petriella Curzi 1930, *Microascaceae*, *Microascales*, *Sordariomycetes*, two species, type: *P. asymmetrica* Curzi, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available, available specimen and cultures for the type: CBS H-7548; CBS 238.38.

Petrophila de Hoog & Quaedvl. 2014, *Extremaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. incerta* de Hoog & Quaedvl., hyphomycetous, sexual morph unknown, rock-inhabiting fungus, Spain, see Egidi et al. (2014; taxonomy), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2017; outline), type: CBS 118608 = TRN139b, cultures and sequences available.

Peyritschiella Thaxt. 1890, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 47 species, type: *P. curvata* Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peyronelia Cif. & Gonz. Frag. 1927, *Ascomycota* genera *incertae sedis*, six or seven species (*fide* Seifert et al. 2011) but Index Fungorum (2017) lists only four epithets, type: *P. sirodesmioides* Cif. & Gonz. Frag., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Peyronellaea Goid. ex Togliani emend. Aveskamp, Gruyter & Verkley 2010, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. 20 species, type: *P. glomerata* (Corda) Goid. ex Togliani, asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Aveskamp et al. (2009, 2010; generic amendment, treated as a distinct genus), Wijayawardene et al. (2012, 2014c, 2017; outline), cultures and sequences are available.

Pezicula Tul. & C. Tul. 1865 (= *Cryptosporiopsis* Bubák & Kabát 1912; = *Lagynodella* Petr. 1922; = *Ocellaria* (Tul. & C. Tul.) P. Karst. 1871 *fide* Johnston et al. 2014b; Jaklitsch et al. 2016a), *Dermateaceae*, *Helotiales*, *Leotiomycetes*, c. 50 species, type: *P. carpinea* (Pers.) Tul. ex Fuckel, asexual morph *Cryptosporiopsis*, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Chen et al. (2016b; new species), Ekanayaka et al. (2016a; new species, Thailand), epitype and cultures available for the type: CBS H-17476; CBS 923.96, CBS 921.96.

Peziza Dill. ex Fr. 1822 (see Species Fungorum 2017 for synonyms), *Pezizaceae*, *Pezizales*, *Pezizomycetes*, more than 100 species, type: *P. vesiculosa* Bull., asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Ashraf et al. (2012; Pakistan, ectomycorrhizae), Barseghyan and Solomon (2011; Israel). Kirk et al. (2013; genus accepted), cultures and sequences are available, available specimen and cultures for type: CBS H-15930; AFTOL-ID 507.

Pezolepis Syd. 1925, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *P. denigrata* Syd., asexual morph unknown, saprobes, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pezoloma Clem. 1909 (= *Ciliatula* Velen. 1922; = *Pseudodiscinella* Dennis 1956 [1955]; = *Sphagnicola* Velen. 1934 *fide* Species Fungorum 2017), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, 14 species, type: *P. denigrata* Clem., asexual morph unknown, saprobes, terrestrial, temperate, see Huhtinen et al. (2010; new species, Sweden), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bruzone et al. (2016; DNA), cultures and sequences are available but lacking for the type.

Pezomela Syd. 1928, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. saxegothaeae* Syd., asexual morph unknown, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; phylogeny), cultures and sequences are available for unidentified species.

Phacellium Bonord. 1860, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, 27 species, type: *P. inhonestum* Bonord., hyphomycetous, saprobes, pathogens, terrestrial, Asia, Europe, North America, South America, see Crous et al. (2009d; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Phacidiella P. Karst. 1884, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. salicina* P. Karst., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014d; new species, treated as in *Ostropales*), cultures and sequences are available but lacking for the type, needs generic revision since have different opinions.

Phacidina Höhn. 1917, *Leptopeltidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. gracilis* (Niessl) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Leptopeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phacidiopycnis Potebnia 1912 (= *Potebniamyces* Smerlis 1962, = *Discosporiopsis* Petr. 1921 *fide* Johnston et al. 2014b), *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, five species, type: *P. malorum* Potebnia, asexual morph coelomycetous, saprobes, pathogens terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014b; phylogeny), Johnston et al. (2014b; nomenclature), Díaz et al. (2015; pathogens, DNA), cultures and sequences are available but lacking for the type.

Phacidium Fr. 1815 (= *Ceuthospora* Grev. 1826; = *Basilocula* Bubák 1914; = *Coccobolus* Wallr. 1833; = *Melanostroma* Corda 1829; = *Phacidiostroma* Höhn.1917; *Siroplaconema* Petr. 1922 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, 270 species, type: *P. lacerum* Fr., asexual morph formerly named in *Ceuthospora*, saprobes, plant pathogens, terrestrial, worldwide, see Barbeito et al. (2013; pathogenicity), Petäistö et al. (2013; pathogenicity), Crous et al. (2014b, 2015a, b; phylogeny, new species), Johnston et al. (2014b; nomenclature), Suija et al. (2015b; phylogeny), Wiseman et al. (2016; new disease), cultures and sequences are available, epitype and ex-epitype of type: CBS H-10302; CBS 761.73.

Phacographa Hafellner 2009, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *P. glaucomaria* (Nyl.) Hafellner, sexual morph with rounded ascomata, lichenicolous, terrestrial, Northern Hemisphere, see Hafellner (2009; morphology), Frisch et al. (2014; phylogeny), sequences are available, lectotype of the type: Nylander (H-Nyl. 11019).

Phacopsis Tul. 1852 (= *Nesolechia* A. Massal. 1856 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 22 species, type: *P. vulpina* Tul., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhurbenko (2010b; new species), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Phacostroma Petr. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *P. hypodermium* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phacostromella Petr. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *P. coronata* (Fuckel) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Germany, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phacothecium Trevis. 1856, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. varium* (Tul.) Trevis., lichenicolous, terrestrial, Northern Hemisphere, see Hafellner (2009; morphology), sequences are unavailable, epitype of the type: J. Hafellner 47633 & A. Hafellner.

Phaeangellina Dennis 1955 (= *Diehlia* Petr. 1951 *fide* Species Fungorum 2017), *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. empetri* (W. Phillips) Dennis, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeangium Pat. 1894, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *P. lefebvrei* Pat., asexual morph unknown, saprobes, terrestrial, North Africa, Arabian Peninsula, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Zitouni-Haouar et al. (2015; DNA), cultures available for the type: BMBH4 (Zitouni-Haouar et al. 2015).

Phaeoacremonium W. Gams, Crous & M.J. Wingf. 1996 (= *Romellia* Berl. 1900; = *Togninia* Berl. 1900 *fide* Réblová et al. 2016c), *Togniniaceae*, *Togniniales*, *Sordariomycetes*, 50 species, type: *P. parasiticum* (Ajello, Georg & C.J.K. Wang) W. Gams, Crous & M.J. Wingf., hyphomycetous, with acremonium-like synasexual morph, sexual morph formerly named in *Togninia*, pathogens, saprobes, terrestrial, cosmopolitan, see Damm et al. (2008a; phylogeny, species associated with *Prunus* wood, new species) Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2016a; new species, phylogeny), Dai et al. (2017; sexual morph), holotype and ex-type of the type: CBS H-22886, CPC 27637.

Phaeoblastophora Partr. & Morgan-Jones 2002, *Ascomycota* genera *incertae sedis*, two species, type: *P. resinae* (Fr.) Partr. & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology),

Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Phaeobotryon Theiss. & Syd. 1915, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, four species, type: *P. cercidis* (Cooke) Theiss. & Syd., asexual morph coelomycetous, saprobes, pathogens, terrestrial, cosmopolitan, see Phillips et al. (2008, 2013; taxonomy, phylogeny), Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, taxonomy, phylogeny), Dissanayake et al. (2016b; taxonomy), cultures and sequences are available.

Phaeocalicium A.F.W. Schmidt 1970, *Mycocaliciaceae*, *Mycocaliciales*, *Eurotiomycetes*, eleven species, type: *P. praecedens* (Nyl.) A.F.W. Schmidt, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Tibell et al. (2014; new species), Tuovila et al. (2014; DNA), Telfer et al. (2015; DNA, phylogeny), sequences are available, voucher specimen of the type: Tuovila 09-240 (TUR).

Phaeocandelabrum R.F. Castañeda, Gusmão, Guarro & Iturr. 2009, *Ascomycota* genera *incertae sedis*, three species, type: *P. elegans* (R.F. Castañeda) R.F. Castañeda, Heredia, Saikawa, hyphomycetous, sexual morph unknown, saprobes, terrestrial, neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeocercospora Crous 2012, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. colophospermi* Crous, hyphomycetous, pathogens, South Africa, see Crous et al. (2012a; morphology; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), sequence data available, holotype and ex-type of the type: CBS H-20966; CPC 19813.

Phaeochora Höhn. 1909, *Phaeochoraceae*, *Phyllachorales*, *Sordariomycetes*, five species, type: *P. chamaeropis* (Cooke) Höhn., saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phaeochorella Theiss. & Syd. 1915, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, six species, type: *P. parinarii* (Henn.) Theiss. & Syd., from living leaves, South Africa, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, available specimen of type: CBS H-15956.

Phaeochoropsis K.D. Hyde & P.F. Cannon 1999, *Phaeochoraceae*, *Phyllachorales*, *Sordariomycetes*, four species, type: *P. neowashingtoniae* (Shear) K.D. Hyde & P.F. Cannon, saprobes, North and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phaeococcomyces de Hoog 1979 (= *Melanocryptococcus* Della Torre & Cif. 1964; = *Nigrococcus* E.K. Novák & Zsolt 1961; = *Phaeococcus* de Hoog 1977 fide Species Fungorum 2017), *Phaeococcomycetaceae*, *Lichenostigmatales*, *Arthoniomycetes*, eight species, type: *P. nigricans* (M.A. Rich & A.M. Stern) de Hoog, hyphomycetous, sexual morph unknown, on human, saprobes, Asia, Europe, North America, South America, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species), Moreno-Rico et al. (2014; new species), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Phaeocryptopus Naumov 1915 (= *Adelopus* Theiss. 1918 [1917]; = *Cryptopus* Theiss. 1914 *fide* Species Fungorum 2017), *Dothideaceae*, *Dothideales*, *Dothideomycetes*, eight species, type: *P. abietis* Naumov, asexual morph unknown, growing on conifer needles, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; review), cultures and sequences are available, holotype of type: F67760.

Phaeocyrtidula Vain. 1921, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. pinea* (Nyl.) Vain., saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phaeocytostroma Petr. 1921, *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *P. istrica* Petr., coelomycetous, sexual morph unknown, pathogens, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; phylogeny, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Phaeodactylium Agnihothr. 1968, *Ascomycota* genera *incertae sedis*, five species, type: *P. venkatesanum* Agnihothr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Castañeda-Ruiz et al. (2009c, 2013c; new species), Seifert et al. (2011; morphology), Zhang et al. (2011h; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available (unpublished).

Phaeodimeriella Speg. 1908, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, 15 species, type:

P. occulta (Racib.) Speg, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Mapook et al. (2016b; taxonomy, phylogeny), cultures and sequences are available, but lacking for the type.

Phaeodiscula Cub. 1891, *Ascomycota* genera *incertae sedis*, one species, type: *P. celottii* Cub., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeodomus Höhn. 1909, *Ascomycota* genera *incertae sedis*, three species, type: *P. lauracearum* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeodothis Syd. & P. Syd. 1904, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. tricuspidis* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Didymosphaeriaceae*), Ariyawansa et al. (2014e; accepted in *Didymosphaeriaceae*), Wijayawardene et al. (2014c; outline), Verkley et al. (2014; new species, phylogeny), sequences and cultures available only for *P. winteri* but lacking for the type, available specimen for type: CBS H-4793.

Phaeofabraea Rehm 1909, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P, miconiae* Rehm, asexual morph unknown, saprobes, terrestrial, South America, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeographis Müll. Arg. 1882, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 180 species, type: *P. dendritica* (Ach.) Müll. Arg., asexual morph unknown, lichenized, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; classification), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Phaeographopsis Sipman 2007, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *P. indica* (Patw. & Nagarkar) Sipman & Aptroot, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2013; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Phaeohelotium Kanouse 1935, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 41 species, type: *P. flavum* Kanouse, asexual morph unknown, saprobes, terrestrial, worldwide, see Hengstmengel (2009; outline), Kaya (2009; Turkey), Lumbsch and Huhndorf (2010; outline), Baral et al. (2013a; new combination), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Phaeohiratsukaea Udagawa & Iwatsu 1990, *Ascomycota* genera *incertae sedis*, one species, type: *P. expansa* Udagawa & Iwatsu, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: National Institute of Hygienic Sciences, Tokyo, NHL2968.

Phaeoidiomyces Dorn.-Silva & Dianese 2004, *Ascomycota* genera *incertae sedis*, one species, type: *P. qualeae* Dorn.-Silva & Dianese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: UB (col. micol.) 9851.

Phaeoisaria Höhn. 1909 (= *Graphiopsis* Bainier 1907; = *Hansfordiula* E.F. Morris 1963; = *Spiculostilbella* E.F. Morris 1963 *fide* Species Fungorum 2017), *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, 20 species, type: *P. bambusae* Höhn., hyphomycetous, sexual morph unknown, pathogens, terrestrial, worldwide, see Seifert et al. (2011; morphology), Mel'nik (2012; new species, Vietnam), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Cheng et al. (2014; new species, China), Crous et al. (2015c; new species), Liu et al. (2015a; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2017; phylogeny), cultures and sequences are available but lacking for the type.

Phaeolabrella Speg. 1912, *Ascomycota* genera *incertae sedis*, one species, type: *P. eryngicola* Speg., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeomoniella Crous & W. Gams 2000, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, one species, type: *P. chlamydospora* (W. Gams, Crous, M.J. Wingf. & Mugnai) Crous & W. Gams, hyphomycetous, sexual morph unknown, with coelomycetous synasexual morph, pathogens, saprobes, endophytic, terrestrial, Italy, see Chen et al. (2015a; phylogeny), Crous et al. (2015d; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype of type: CBS H-229.95

as *Phaeoacremonium chlamydosporum* W. Gams et al., reference culture of type: CBS 229.95.

Phaeomonilia R.F. Castañeda, Heredia & R.M. Arias 2007, *Ascomycota* genera *incertae sedis*, four species, type: *P. pleiomorpha* R.F. Castañeda, Heredia & R.M. Arias, hyphomycetous, sexual morph unknown, saprobes, terrestrial and aquatic, Mexico, see Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Ma et al. (2015; new species), Yang et al. (2016a; new species), Wijayawardene et al. (2017; outline), holotype of the type: XAL CB746, cultures and sequences are unavailable, compare with *Botryomonilia*, *Pseudaegerita*, *Staheliella* and *Oidiodendron*.

Phaeomonostichella Keissl. ex Petr. 1941, *Ascomycota genera incertae sedis*, one species, type: *P. symploci* (Keissl.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeonectriella R.A. Eaton & E.B.G. Jones 1971, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *P. lignicola* R.A. Eaton & E.B.G. Jones, asexual morph unknown, saprobes on wood, marine, temperate, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Phaeopeltosphaeria Berl. & Peglion 1892, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. caudata* Berl. & Peglion, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phaeophacidium Henn. & Lind 1897, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, four species, type: *P. escalloniae* Henn. & Lindau, asexual morph unknown, saprobes, causing leaf spots, terrestrial, Asia, Australia, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeophleospora Rangel 1916, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, eleven species, type: *P. eugeniae* Rangel, coelomycetous, with mycosphaerella-like sexual morphs, plant pathogens, see Wijayawardene et al. (2012, 2017; outline), Quaedvlieg et al. (2014; morphology; phylogeny), Crous et al. (2015d, 2016b; new species), cultures and sequences are available, neotype of type: IMI 372655.

Phaeophloeosporella Crous & B. Sutton 1997, *Ascomycota* genera *incertae sedis*, one species, type: *P. ekebergiae* (Syd.) Crous & B. Sutton, coelomycetous, sexual morph unknown, Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeophyscia Moberg 1977, *Physciaceae*, *Teloschistales*, *Lecanoromycetes*, 66 species, type: *P. orbicularis* (Neck.) Moberg, foliose lichen, terrestrial, worldwide, see Shukla & Upreti (2009; bioindicator), Lendemer (2009; record), Brackel (2011b; Iceland), Arslan et al. (2011; Turkey), Shukla et al. (2012; physiology), Pindaru et al. (2013; chemical composition), Lücking et al. (2017a; classification), cultures and sequences are available for most of the species including type.

Phaeopoacea Thambug., Dissan. & K.D. Hyde 2017, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. festucae* Dissan. & K.D. Hyde, asexual morph coelomycetous, saprobes, Europe, see Thambugala et al. (2017b; taxonomy, phylogeny), holotype of the type: MFLU 17– 0121.

Phaeopyxis Rambold & Triebel 1990, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, five species, type: *P. punctum* (A. Massal.) Rambold, lichenicolous, terrestrial, Europe, Asia, North and South America, Australia, see Diederich et al. (2009; Europe), Motiejūnaitė et al. (2011; Lithuania), Matwiejuk and Bohdan (2011; Poland), Himelbrant et al. (2013; Russia), Suija et al. (2015b; phylogeny), Pino-Bodas et al. (2017; treated as *Ostropomycetidae*), sequences are available.

Phaeoramularia Munt.-Cvetk. 1960, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, more than 100 species names, but genus appears one species, type: *P. gomphrenicola* (Speg.) Munt.-Cvetk., hyphomycetous, plant pathogens, see Videira et al. (2017; morphology, phylogeny), cultures and sequences are available, holotype of type: LPS 914, isotypes of type: BPI 436740, BPI 722393; K (M) IMI 7706 (slide), MICH 15302.

Phaeorrhiza H. Mayrhofer & Poelt 1979, *Physciaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *P. nimbosa* (Fr.) H. Mayrhofer & Poelt, asexual morph unknown, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Resl et al. (2016; phylogeny), cultures and sequences are available, cultures available for the type: T805.

Phaeosaccardinula Henn. 1905, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, 16 species, type: *P. diospyricola* Henn., asexual morph unknown, epiphytes, sooty moulds, terrestrial, China, Thailand, see Chomnunti et al. (2012b; 2014; morphology; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Yang et al. (2014b; morphology; phylogeny), cultures and sequences are available for some species, available specimen of type: CBS H-4260.

Phaeoschizotrichum C.R. Silva, Gusmão & R.F. Castañeda 2015, *Ascomycota* genera *incertae sedis*, one species, type: *P. ramosum* Silva, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Silva et al. (2015b; morphology), cultures and sequences are unavailable, holotype of the type: HUEFS 210423, compare with *Passalora*, *Pseudocercospora* and *Schizotrichum*.

Phaeosclera Sigler, Tsuneda & J.W. Carmich. 1981, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. dematioides* Sigler, Tsuneda & J.W. Carmich., hyphomycetous, sexual morph unknown, terrestrial, saprobes, worldwide, see Raja et al. (2011a; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, isotype and cultures available for the type: CBS H-7557; CBS 157.81.

Phaeosclerotinia Hori 1916, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. nipponica* Hori, asexual morph hyphomycetous, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeoscypha Spooner 1984, *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. cladii* (Nag Raj & W.B. Kendr.) Spooner, asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Phaeoseptum Ying Zhang, J. Fourn. & K.D. Hyde 2013, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. aquaticum* Ying Zhang, J. Fourn. & K.D. Hyde, asexual morph unknown, saprobes, freshwater, France, see Zhang et al. (2013d; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), sequence data available for the type, holotype and ex-type strains of type: IFRD 8986; CBS 123113.

Phaeosperma Nitschke ex Fuckel 1870, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. dryophilum* Nitschke ex G.H. Otth, asexual morph unknown, saprobes, terrestrial, Switzerland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, epitype and ex-epitype strains of type: WU 32035; CBS 133213, LG21.

Phaeosphaeria I. Miyake 1909, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 90 species, type: *P. oryzae* I. Miyake, asexual morph coelomycetous, saprobes or pathogens, terrestrial, worldwide, see Zhang et al. (2012e; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), Tibpromma et al. (2017b; new species), sequence data available for more than 10 species, need adequate sequence data, ex-epitype strains of type: CBS 110110; lectotype of type: S-F9572.

Phaeosphaeriopsis M.P.S. Câmara, M.E. Palm & A.W. Ramaley 2003, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, ten species, type: *P. glaucopunctata* (Grev.) M.P.S. Câmara, M.E. Palm & A.W. Ramaley, asexual morph unknown coelomycetous, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013 accepted as a genus in *Phaeosphaeriaceae*), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), Wijayawardene et al. (2014c, 2017; outline), Thambugala et al. (2014c; new species, phylogeny), Crous et al. (2016a; new species, phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Phaeospora Hepp 1867, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 17 species, type: *P. rimosicola* (Leight. ex Mudd) Hepp, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Etayo (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), van den Boom and Etayo (2014; new species), cultures and sequences are unavailable for the type.

Phaeosporis Clem. 1909, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *P. melasperma* (Nyl.) Clem., asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phaeosporobolus D. Hawksw. & Hafellner 1986, six species, *Ascomycota* genera *incertae* sedis, type: *P. usneae* D. Hawksw. & Hafellner, hyphomycetous, sexual morph unknown, lichenicolous, widespread, see Seifert et al. (2011; morphology), Ertz et al (2015; phylogeny), cultures and sequences are available, holotype of type: K(M)-IMI 281394.

Phaeostagonospora A.W. Ramaley 1997, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. nolinae* A.W. Ramaley, coelomycetous, sexual morph paraphaeosphaeria-like, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Quaedvlieg et al. (2013; accepted phaeostagonospora-like asexual morphs in *Paraphaeosphaeria*), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), cultures and sequences are unavailable.

Phaeostalagmus W. Gams 1976, *Ascomycota* genera *incertae sedis*, seven species, type: *P. cyclosporus* (Grove) W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology, treated as *Chaetosphaeriaceae*), Wijayawardene et al. (2012, 2017; outline, accepted as a genus in *Ascomycota*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, listed in *Chaetosphaeriaceae*), cultures and sequences are unavailable, available specimen of type: CBS H-19245.

Phaeostigme Syd. & P. Syd. 1917, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, c. 20 species, type: *P. picea* (Berk. & M.A. Curtis) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phaeostilbelloides Armando, Z.M. Chaves & Dianese 2015, *Ascomycota* genera *incertae sedis*, one species, type: *P. velloziae* Armando, Z.M. Chaves & Dianese, hyphomycetous, sexual morph unknown, on living leaves, terrestrial, Brazil, see de Souza Armando et al. (2015; morphology), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, holotype of the type: UBMC 18404, compare with *Myrothecium* and *Phaeostilbella*.

Phaeotheca Sigler et al. 1981 *Capnodiales*, genera *incertae sedis*, *Dothideomycetes*, four species, type: *P. fissurella* Sigler, Tsuneda & J.W. Carmich., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2016b; new species, phylogeny), Type: CBS 520.89, cultures are available.

Phaeothecoidea Crous 2007, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *P. eucalypti* Crous & Summerell, hyphomycetous, sexual morph unknown, pathogens, saprobes, Australia, see Crous et al. (2009e; morphology, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017 outline), cultures and sequences are available, holotype and ex-type culture of type: CBS-H 19836, CPC 12918.

Phaeothecoidiella Batzer & Crous 2010, *Phaeothecoidiellaceae*, *Dothideomycetes* family, *incertae sedis*, two species, type: *P. missouriensis* Batzer & Crous, hyphomycetous, sexual morph unknown, pathogens, saprobes, USA, see Yang et al. (2010; morphology, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Hongsanan et al. (2017b; phylogeny, family placement), cultures and sequences are available, holotype and ex-type culture of type: CBS H-20322, CPC 16116.

Phaeothyriolum Syd. 1938, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. eucalyptinum* Syd., asexual morph unknown, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phaeothyrium Petr. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *P. pulchellum* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeotomasellia Katum. 1981, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. ruwenzorensis* Katum., asexual morph unknown, saprobes, terrestrial, Uganda, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phaeotrichoconis Subram. 1956, *Ascomycota* genera *incertae sedis*, two species, type: *P. crotalariae* (M.A. Salam & P.N. Rao) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaeotrichosphaeria Sivan. 1983, *Sordariomycetes* genera *incertae sedis*, two species, type: *P. indica* Sivan. & N.D. Sharma, asexual morph unknown, pathogens, terrestrial, India, UK, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phaeotrichum Cain & M.E. Barr 1956, *Phaeotrichaceae*, *Phaeotrichales*, *Dothideomycetes*, two species, type: *P. hystricinum* Cain & M.E. Barr, asexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; accepted as a genus in *Phaeotrichaceae*), Hyde et al. (2013; accepted as a genus in *Phaeotrichaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type.

Phaeoxyphiella Bat. & Cif. 1963, *Ascomycota* genera *incertae sedis*, seven species, type: *P. morototoni* Bat. & Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Phaeoxyphium Bat. & Cif. 1963, *Ascomycota* genera *incertae sedis*, type: *P. dubium* (Sacc.) Bat. & Cif., see Kirk et al. (2008; treated as nom. dub.), Kirk et al. (2013; genus accepted).

Phaffomyces Y. Yamada 1997, *Phaffomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, five species, type: *P. opuntiae* (Starmer, Phaff, M. Miranda, M.W. Miller & J.S.F. Barker) Y. Yamada, asexual reproduction is by multilateral budding, saprophytic, necrotic tissue of the columnar cactus (*Cephalocereus royenii*), the prickly pear cactus (*Opuntia inermis*) and the senita cactus (*Lophocereus schottii*), Australia, USA, islands of the Caribbean, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Phalacrichomyces R.K. Benj. 1992, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *P. normalis* R.K. Benj., asexual morph unknown, biotrophic, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phalangispora Nawawi & J. Webster 1982, *Ascomycota* genera *incertae sedis*, three species, type: *P. constricta* Nawawi & J. Webster, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available (unpublished).

Phanerococculus Cif. 1954, *Ascomycota* genera *incertae sedis*, two species, type: *P. rapaneae* Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, Santo Domingo, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaneromyces Speg. & Har. 1889, *Phaneromycetaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *P. macrosporus* (Boud.) Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phaulomyces Thaxt. 1931 (= *Adelomyces* Taxt. 1931 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 14 species, type: *P. corylophodis* Thaxt., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phellostroma Syd. & P. Syd. 1914, *Ascomycota* genera *incertae sedis*, one species, type: *P. hypoxyloides* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phialemoniopsis Perdomo, Dania García, Gené, Cano & Guarro 2013, *Sordariomycetes* genera *incertae sedis*, six species, type: *P. ocularis* (Gené & Guarro) Perdomo, Dania García, Gené & Guarro, asexual morph unknown, pathogens on human, endophytes, terrestrial, America, China, see Perdomo et al. (2013; taxonomy, phylogeny), Desoubeaux et al. (2014; pathogens, phylogeny), Tsang et al. (2014a; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Su et al. (2016d; new species), cultures and sequences are available, cultures available for the type: FMR 6632.

Phialemonium W. Gams & McGinnis 1983, *Cephalothecaceae*, *Sordariomycetes* families *incertae sedis*, six species, type: *P. obovatum* W. Gams & McGinnis, hyphomycetous, sexual morph unknown, saprobes, human pathogen, terrestrial, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Perdomo et al. (2013; new species, phylogeny), Crous et al. (2015d; new species), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures and sequences are available, available specimen and cultures for the type: CBS H-1665; CBS 279.76.

Phialoarthrobotryum Matsush. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *P. triseptatum* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, available specimen for type: CBS H-7561.

Phialoascus Redhead & Malloch 1977, ?*Saccharomycetales* genera *incertae sedis*, ?*Saccharomycetes* one species, type: *P. borealis* Redhead & Malloch, asexual reproduction unknown, mycoparasitic on the mushroom *Cortinarius huronensis*, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phialocephala W.B. Kendr. 1961 (= *Phaeomollisia* T.N. Sieber & Grünig 2009 *fide* Johnston et al. 2014b), *Dermateaceae*, *Helotiales*, *Leotiomycetes*, 27 species, type: *P. dimorphospora* W.B. Kendr., hyphomycetous, sexual morph formerly named in *Phaeomollisia*, saprobes, terrestrial, aquatic, worldwide, see Grünig et al. (2009; new species), Wang et al. (2009b; new species, Missouri), Lumbsch and Huhndorf (2010; outline), Day et al. (2012; new species), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures available for the type: CBS 300.62.

Phialogeniculata Matsush. 1971, *Ascomycota* genera *incertae sedis*, one species, type: *P. guadalcanalensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Guadeloupe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phialomyces P.C. Misra & P.H.B. Talbot 1964, *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, three species, type: *P. macrosporus* P.C. Misra & P.H.B. Talbot, asexual

morph unknown, saprobes, terrestrial, worldwide, see Houbraken and Samson (2011; taxonomy, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, available specimen and culture for type: CBS H-7563; CBS 430.64.

Phialophaeoisaria Matsush. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *P. spongiosa* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Matsushima Fungus Collection, Kobe, MFC-2J770.

Phialophora Medlar 1915, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, nine species, type: *P. verrucosa* Medlar, hyphomycetous, mostly saprobes, terrestrial, isolated from soil, decaying plant material and other substrates, also including important clinically-relevant fungi, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Réblová et al. (2013; reallocation of selected taxa), Madrid et al. (2016; reallocation), Li et al. (2017b; outline, new species), cultures and sequences are available, ex-epitype of the type: CBS 140325.

Phialophorophoma Linder 1944, *Pleosporales* genera *incertae sedis*, one species, type: *P. litoralis* Linder, coelomycetous, sexual morph unknown, marine, saprobes, Europe, USA, see Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), Wijayawardene et al. (2017; outline), cultures and sequences are available, available specimen of type: CBS H-17521.

Phialosporostilbe Mercado & J. Mena 1985, *Ascomycota* genera *incertae sedis*, five species, type: *P. turbinata* Mercado & J. Mena, hyphomycetous, sexual morph unknown, saprobes, in soil, terrestrial, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available (unpublished).

Phialostele Deighton 1969, *Ascomycota* genera *incertae sedis*, one species, type: *P. scytopetali* Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phialotubus R.Y. Roy & Leelav. 1966, *Ascomycota* genera *incertae sedis*, one species, type: *P. microsporus* R.Y. Roy & Leelav., hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, available specimen of type: CBS H-7598.

Phillipsia Berk. 1881, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, 17 species, type: *P. domingensis* Berk., asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Romero et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: DHP 7169.

Phillipsiella Cooke 1878, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, twelve species, type: *P. atra* Cooke, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Saccardiaceae*), Kirk et al. (2013; genus accepted), da Silva et al. (2016; phylogeny), cultures and sequences are available.

Philobryon Döbbeler 1988, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. anuliferum* Döbbeler, on Bryophyta, Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Philonectria Hara 1914, *Dothideomycetes* genera *incertae sedis*, three species, type: *P. variabilis* Hara, saprobes, Japan, Uganda, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phloeopeccania J. Steiner 1902, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, four species, type: *P. pulvinulina* J. Steiner, asexual morph unknown, lichenized, terrestrial, Asia, Africa, North America, see Schultz et al. (2009; Namibia, South Africa), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Candan and Schultz (2015; new species, taxonomy), Lücking et al. (2017a; classification), sequence data available for one species.

Phloeospora Wallr. 1833, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, c. 150 species but need a revision, type: *P. ulmi* (Fr.) Wallr., coelomycetous, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2013; phylogeny), cultures and sequences are unavailable.

Phloeosporina Höhn. 1924, *Ascomycota* genera *incertae sedis*, one species, type: *P. minor* (Ellis & Kellerm.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phlogicylindrium Crous, Summerb. & Summerell 2006, *Phlogicylindriaceae*, *Amphisphaeriales*, *Sordariomycetes*, three species, type: *P. eucalypti* Crous, Summerb. & Summerell, asexual morph unknown, saprobes, all occurring on *Eucalyptus* species, Australia, see Wijayawardene et al. (2012, 2017; outline), Senanayake et al. (2015; phylogeny, morphology), Crous et al. (2016a; new species, phylogeny), sequence data available for all species, holotype and ex-type of the type: CBS H-19749; CBS 120080.

Phlyctaeniella Petr. 1922, *Ascomycota* genera *incertae sedis*, two species, type: *P. polonica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Australia, see Tiwari et al. (2012; new species, India), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phlyctema Desm. 1847, *Dermateaceae*, *Helotiales*, *Leotiomycetes*, c. 30, type: *P. vagabunda* Desm., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2013; new species), Johnston et al. (2014b; treated as a synonym of *Neofabraea*), Chen et al. (2016b; resurrected the genus), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available.

Phlyctis (Wallr.) Flot., 1850, *Phlyctidaceae*, *Lecanorales*, *Lecanoromycetes*, 20 species, type: *P. agelaea* (Ach.) Flot., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Fernandez-Brime et al. (2011; phylogeny), Kelly et al. (2011; DNA barcoding), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Weerakoon et al. (2016; new species and records), sequence data available.

Phoebus R.C. Harris & Ladd, 2007, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *P. hydrophobius* R.C. Harris & Ladd, asexual morph unknown, lichenized, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Phoma Sacc. 1880, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. 100 species, type: *P. herbarum* Westend., coelomycetous, sexual morph didymella-like, saprobes, pathogens, terrestrial, worldwide, see de Gruyter et al. (2009, 2010, 2012; taxonomy, phylogeny), Aveskamp et al. (2010; phylogeny), Woudenberg et al. (2009; sexual morph), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Didymellaceae*), Kirk et al. (2013; genus accepted), Chen et al. (2015b; phylogeny), cultures and sequences are available.

Phomachora Petr. & Syd. 1925, *Ascomycota* genera *incertae sedis*, two species, type: *P. lucida* (Berk. & M.A. Curtis) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, America, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phomachorella Petr. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *P. parinarii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phomatodes Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, c. 20 species, type: *P. aubrietiae* (Moesz) Q. Chen & L. Cai, coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Chen et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Phomatospora Sacc., 1875, *Phomatosporaceae*, *Phomatosporales*, *Sordariomycetes*, c. 100 species, type: *P. berkeleyi* Sacc., saprobes on submerged wood or decaying twigs, widespread, asexual morph sporothrix-like reported from culture, see Raja and Shearer (2008; overview), Lumbsch and Huhndorf (2010; outline), Jones et al. (2015; marine species, outline), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2016; phylogeny), sequences are available for four species but lacking for the type, available specimen of type: CBS H-5533.

Phomatosporella Tak. Kobay. & K. Sasaki 1982, *Ascomycota* genera *incertae sedis*, one species, type: *P. albomaculans* Tak. Kobay. & K. Sasaki, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted in as a genus in *Sordariomycetes*), cultures and sequences are unavailable.

Phomyces Clem. 1931, *Ascomycota* genera *incertae sedis*, one species, type: *P. meliolicola* (Speg.) Clem., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phragmaspidium Bat. 1960, *Dothideomycetes* genera *incertae sedis*, three species, type: *P. corruscans* (Rehm) Bat., asexual morph unknown, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phragmeriella Hansf. 1946, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, one species,

type: *P. ireninae* Hansf., asexual morph unknown, saprobes, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phragmitensis K.M. Wong, Poon & K.D. Hyde 1998, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, two species, type: *P. marina* M.K.M. Wong, Poon & K.D. Hyde, asexual morph unknown, intertidal, in salt marsh, on *Phragmites*, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable, holotype of type: HKU (M) 5151.

Phragmiticola Sherwood 1987, *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *P. rhopalospermum* (Kirschst.) Sherwood, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phragmocamarosporium Wijayaw., Yong Wang bis & K.D. Hyde 2015, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. platani* Wijayaw., Yong Wang bis & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, Germany, China, see Wijayawardene et al. (2015, 2016b, 2017; taxonomy, phylogeny), holotype: HGUP NNW G0928-1, cultures and sequences are unavailable.

Phragmocapnias Theiss. & Syd. 1918 (= *Conidiocarpus* Woron. 1927 *fide* Wijayawardene et al. 2014c), *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *P. betle* (Syd., P. Syd. & E.J. Butler) Theiss. & Syd., asexual morph unknown, tropical, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2011, 2014; accepted as a genus in *Capnodiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Phragmocephala E.W. Mason & S. Hughes 1951, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, nine species, type: *P. cookei* E.W. Mason & S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2017; phylogeny), cultures and sequences are available but lacking for the type.

Phragmoconidium G.F. Sepúlveda, Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, two species, type: *P. cerradense* G.F. Sepúlveda, Pereira-Carv. & Dianese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phragmodiaporthe Wehm. 1941, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, five species, type: *P. caryae* (Peck) Wehm., asexual morph unknown, saprobes, North America, China, see Vasilyeva et al. (2008; new species, China), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Phragmodiscus Hansf. 1947, *Sordariomycetes* genera *incertae sedis*, two species, type: *P. arundinariae* Hansf., asexual morph unknown, saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Phragmogibbera Samuels & Rogerson 1990, *Dothideomycetes* genera *incertae sedis*, three species, type: *P. xylariicola* Samuels & Rogerson, saprobes, Venezuela, see Lumbsch and Huhndorf (2010; outline, accepted in *Venturiaceae*), Hyde et al. (2013; not accepted in *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: VEN.

Phragmopeltis Henn. 1904, *Ascomycota* genera *incertae sedis*, five species, type: *P. siparunae* Henn., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phragmoporthe Petr. 1934, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. ploettneriana* (Henn.) Petr., asexual morph unknown, saprobes, terrestrial, Europe, North America., see Sogonov et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Phragmoscutella Woron. & Abramov 1927, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. abchasica* Woron. & Abramov, saprobes, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phragmospathula Subram. & N.G. Nair 1966, *Ascomycota* genera *incertae sedis*, one species, type: *P. phoenicis* Subram. & N.G. Nair, hyphomycetous,

sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phragmospathulella J. Mena & Mercado 1986, *Ascomycota* genera *incertae sedis*, one species, type: *P. matsushimae* J. Mena & Mercado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phragmosperma Theiss. & Syd. (1917) [1916], *Dothideomycetes* genera *incertae sedis*, type: *P. marattiae* (Henn.) Theiss. & Syd., data inadequate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable,

Phragmotrichum Kunze 1823, *Ascomycota* genera *incertae sedis*, four species, type: *P. chailletii* Kunze, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Asia, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, available specimen for type: CBS H-16912.

Phthora d'Hérelle 1909, *Ascomycota* genera *incertae sedis*, one species, type: *P. vastatrix* d'Hérelle, asexual morph unknown, saprobes, terrestrial, Guatemala, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phurmomyces Thaxt. 1931, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. obtusus* Thaxt., asexual morph unknown, saprobes, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phycomelaina Kohlm., 1968, *Phyllachorales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. laminariae* (Rostr.) Kohlm., asexual morph unknown, on marine alga *Laminaria*, temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phyllachoraceae*), Kirk et al. (2013; genus accepted), Jones et al. (2015; review), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Phyllachorales*), cultures and sequences are unavailable.

Phycorella Döbbeler 1980, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. scytonematis* Döbbeler, parasites, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Phylacia Lév. 1845 (= *Henningsina* Möller 1901; = *Leveillea* Fr. 1849 *fide* Wendt et al. 2017), *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, eight species, type: *P. globosa* Lév., asexual morph unknown, terrestrial, saprobes, mainly coprophilous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available.

Phyllachora Nitschke ex Fuckel 1870, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, c. 1000 species (need revision), type: *P. graminis* (Pers.) Fuckel, saprobes, North and South America, see Lumbsch and Huhndorf (2010; outline), Santos et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), DNA sequence available for the voucher UB21307 of the type, available specimen of type: CBS H-5212.

Phyllachorella Syd. 1914, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *P. micheliae* Syd., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, available specimen of type: CBS H-4052.

Phyllactinia Lév. 1851, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, 111 species, type: *P. guttata* (Wallr. : Fr.) Lév., asexual morph hyphomycetous, biotrophic, obligate plant pathogens, terrestrial, worldwide, see Takamatsu et al. (2008b, 2016; phylogeny), Lumbsch and Huhndorf (2010; outline), Braun and Cook (2012; taxonomy), Kirk et al. (2013; genus accepted), sequences are available, lectotype of type: G 00122109.

Phylleutypa Petr. 1934, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *P. dioscoreae* (Wakef.) Petr., saprobes, Africa, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phylliscidiopsis Sambo 1937, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *P. abissinica* Sambo., asexual morph unknown, lichenized, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Phylliscidium Forssell 1885, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *P. monophyllum* (Kremp.) Forssell, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline) Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Phyllisciella Henssen 1984, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *P. marionensis* Henssen, asexual morph unknown, lichenized, terrestrial, Africa, see de Lange et al. (2012; conservation), Lumbsch and Huhndorf (2010; outline) Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Phylliscum Nyl. 1855, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, eight species, type: *P. demangeonii* (Moug. & Mont.) Nyl., asexual morph unknown, lichenized, terrestrial, worldwide, see Bajpai et al. (2009; biodeterioration), Sheik et al. (2009, 2016; taxonomy), Lumbsch and Huhndorf (2010; outline), Anderson and Neily (2012, Nova Scotia), Prieto et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Goni et al. (2014; Jammu), Shukla et al. (2014b; diversity), Lücking et al. (2017a; classification), sequences are available.

Phyllobaeis Kalb & Gierl 1993, *Baeomycetaceae*, *Baeomycetales*, *Lecanoromycetes*, six species, type: *P. imbricata* (Hook.) Kalb & Gierl, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Cao et al. (2013; new species, phylogeny), Kirk et al. (2013; genus accepted), Flakus et al. (2015; taxonomy), Mittermeier et al. (2015; metabolic profiling), Lücking et al. (2017a; classification), sequences are available.

Phyllobathelium (Müll. Arg.) Müll. Arg. 1890, *Strigulaceae*, *Strigulales*, *Dothideomycetes*, five species, type: *P. epiphyllum* (Müll. Arg.) Müll. Arg., asexual morph unknown, lichenized fungi, terrestrial, tropical, see Nelsen et al. (2009, 2011b; description, phylogeny), Lücking (2008; partial monograph), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Lücking et al. (2017a; classification), cultures and sequences are available.

Phylloblastia Vain. 1921, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, twelve species, type: *P. dolichospora* Vain., asexual morph unknown, lichenicolous, terrestrial, pantropical, see Flakus and Lücking (2008; new species, Bolivia), Lücking (2008; new species), Lumbsch and Huhndorf (2010; outline), McCarthy (2010; new species), Kirk et al. (2013; genus accepted), McCarthy and Stajsic (2013; new species), van den Broeck et al. (2014; new species), Lücking et al. (2017a; classification), cultures and sequences are unavailable for the type.

Phyllocelis Syd. 1925, *Sordariomycetes* genera *incertae sedis*, two species, type: *P. oyedaeae* Syd., saprobes, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phyllocratera Sérusiaux & Aptroot 1997, *Strigulaceae*, *Strigulales*, *Dothideomycetes*, two species, type: *P. papuana* Sérusiaux & Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted in *Strigulaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: LG (Lambinon 87.427).

Phyllocrea Höhn. 1918, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *P. quitensis* (Pat.) Höhn., from living leaves, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phylloedium Fr. 1825, *Ascomycota* genera *incertae sedis*, one species, type: *P. epiphylla* Fr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phyllogyalidea Lücking & Aptroot 2008, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *P. epiphylla* (Vězda) Lücking & Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lücking (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Phyllohendersonia Tassi 1902, *Ascomycota* genera *incertae sedis*, 25 species, type: *P. mahoniae* Unamuno, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phyllopezis Petr. 1949, *Leotiomycetes* genera *incertae sedis*, one species, type: *P. andina* Petr., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Phylloporthe Syd. 1925, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. vernoniae* Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Phyllopsora Müll. Arg. 1894, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, 70 species, type: *P. breviuscula* (Nyl.) Müll. Arg. (*Lecidea breviuscula* Nyl.), lichenized, corticolous, tropical, extending into

oceanic temperate, see Timdal (2008; Peru), Lücking et al. (2017a; classification), sequence data available.

Phyllosticta Pers. 1818 (= *Guignardia* Viala & Ravaz 1892 *fide* Wijayawardene et al. 2014c), *Phyllostictaceae*, *Botryosphaeriales*, *Dothideomycetes*, c. 100 species, type: *P. convallariae* Pers., coelomycetous, sexual morph formerly named in *Guignardia*, saprobes, pathogens, endophytes, terrestrial, worldwide, see Wulandari et al. (2009; pathogens), Glienke et al. (2011; taxonomy), Wikee et al. (2011, 2013a, b; review), Su and Cai (2012; phylogeny), Hyde et al. (2013; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline, phylogeny), Wu et al. (2014c; species in banana), cultures and sequences are available, available specimen of type: CBS H-16994.

Phymatotrichopsis Hennebert 1973, *Rhizinaceae*, *Pezizales*, *Pezizomycetes*, 17 species, type: *P. omnivora* (Duggar) Hennebert, hyphomycetous, sexual morph unknown, pathogens, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Physalidiella Rulamort 1990, *Ascomycota* genera *incertae sedis*, three species, type: *P. elegans* (Mosca) Rulamort, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, Europe, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Physalidiopsis R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *P. carbonis* (R.F. Castañeda) R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Physalospora Niessl 1876, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, 37 species, type: *P. alpestris* Niessl, asexual morph unknown, terrestrial, aquatic, saprobes and endophytic, widespread, see Raja and Shearer (2008; new species, freshwater), Polashock et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available for three species.

Physalosporopsis Bat. & H. Maia 1955, *Dothideomycetes* genera *incertae sedis*, 17 species, type: *P. rhizophoricola* Bat. & H. Maia, asexual morph unknown, pathogens, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Physcia (Schreb.) Michaux 1803, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, 80 species, type: *P. tenella* (Scop.) DC., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2015g; new species), Prieto and Wedin (2016; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Physcidia Tuck 1862, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, ten species, type: *P. wrightii* (Tuck.) Tuck., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Aptroot and Caceres (2014; key), Dong et al. (2015; new records), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Physciella Essl. 1986, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, four species, type: *P. chloantha* (Ach.) Essl., lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Prieto and Wedin (2016; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Physconia Poelt 1965, *Physciaceae*, *Lecanorales*, *Lecanoromycetes*, 25 species, type: *P. pulverulenta* (Schreb.) Poelt, asexual morph unknown, lichenized, terrestrial, worldwide, see Lendemer et al. (2009; taxonomy), Begum and HariKrishna (2010; air pollution), Björk (2010; new record), Esslinger and Dillman (2010; new record), Loppi and Nascimbene (2010; bioindicators), Stamenković and Cvijan (2010; air pollution). Stamenković et al. (2010; bioindicators), Lisowska (2011; air pollution), Lumbsch and Huhndorf (2010; outline), Tsurykau et al. (2011; checklist), Yatsyna (2011; taxonomy), Gaya et al. (2012; sequence), Jury (2013; list), Kirk et al. (2013; genus accepted), Bilovitz (2014; biodiversity), Goni et al. (2014; checklist), Karakoti et al. (2014; taxonomy), Paoli et al. (2015; air pollution), Yavuz et al. (2015; epiphytes diversity), Lücking et al. (2017a; classification), Motiejūnaitė et al. (2016; list), sequences are available for few species.

Physma A. Massal. 1854, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 51 species, type: *P. boryanum* (Pers.) A. Massal., asexual morph unknown, lichenized, terrestrial, worldwide, see Wedin et al. (2009b; phylogeny), Diederich et al. (2010b; lectotypification), Otálora et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Din et al. (2010; chemoprofile), Jayalal et al. (2013a; Vietnam), Kirk et al. (2013; genus accepted), Kerr (2014; checklist), Magain and Sérusiaux (2014; partial sequence), Ekman et al. (2014; transferred to *Pannariaceae*), Aptroot and

John (2015; taxonomy), Lücking et al. (2017a; classification), Ohmura et al. (2016; Japan), Rangsiruji et al. (2016; phylogeny), sequences are available but lacking for type.

Physmatomyces Rehm 1900, *Leotiomycetes* genera *incertae sedis*, one species, type: *P. compacti* E.A. Thomas ex Cif. & Tomas., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Picardella I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *P. endogaea* (F. Picard) I.I. Tav., asexual morph unknown, biotrophic, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Piccolia A. Massal. 1856, *Lecanoromycetes* genera *incertae sedis*, seven species, type: *P. crocea* (Spreng.) A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Piceomphale Svrček 1957, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. bulgarioides* (P. Karst.) Svrček, asexual morph unknown, saprobes, cosmopolitan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Rutstroemiaceae*), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Pichia E.C. Hansen 1904, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, 35 species, type: *P. membranifaciens* (E.C. Hansen) E.C. Hansen, asexual reproduction is by multilateral budding, saprophytic, but a few strains are of clinical origin, insect frass from various trees, cacti, rotted fruit, spoiled fruit juice, soil, tanning liquor, sputum, cecum of a cow, human and animal faeces, various clinical sources (*P. kudriavzevii* = *Candida krusei*), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), a few asexual species of this clade presently remain in *Candida*, but will be transferred to *Pichia* as new combinations, cultures and sequences are available.

Picoa Vittad. 1831, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *P. juniperi* Vittad., asexual morph unknown, saprobes, hypogeous, terrestrial, worldwide, see Guecin et al. (2010; Turkey), Lumbsch and Huhndorf (2010; outline), Sbissi et al. (2010; DNA, phylogeny), Ammarellou et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Pidoplitchkoviella Kiril. 1975, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. terricola* Kiril., asexual morph unknown, from soil, terrestrial, British Islesraine, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Piedraia Fonseca & Leão 1928, *Piedraiaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *P. hortae* Fonseca & Leão, asexual morph unknown, human pathogen, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Piggotia Berk. & Broome 1851, *Ascomycota* genera *incertae sedis*, three species, type: *P. astroidea* (Berk.) Berk. & Broome, coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pileomyces K.L. Pang & Jheng 2012, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *P. formosanus* K.L. Pang & J.S. Jheng, asexual morph unknown, saprobes, marine, Taiwan, see Pang and Jheng (2012b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype of type: BBH 30192, BIOTEC Bangkok Herbarium.

Pilgeriella Henn. 1900, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *P. perisporioides* Henn., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pilidium Kunze 1823 (= *Discohainesia* Nannf. 1932; *Hainesia* Ellis & Sacc. 1884; *Sclerotiopsis* Speg. 1882 *fide* Johnston et al. 2014b), *Chaetomellaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *P. acerinum* (Alb. & Schwein.) Kunze, coelomycetous, sexual morph formerly named in *Discohainesia*, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2013b, 2015e; new species), Johnston et al. (2014b; nomenclature, new combination), cultures and sequences are available, available specimen and cultures for the type: CBS H-17074; CBS 736.68.

Pilophorus Th. Fr., 1857, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, 38 species, type: *P. robustus* Th. Fr., asexual morph unknown, lichenized, terrestrial, worldwide, see Wang et al. (2010c, 2011a, b; new species, taxonomy), Lim et al. (2010; pyrosequencing), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequence data available.

Pinatubo J.B. Manandhar & Mew 1996, *Ascomycota* genera *incertae sedis*, one species, type: *P. oryzae* J.B. Manandhar & Mew, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: ?CALP [as 'UPLB'] 10284.

Piperivora Siboe, P.M. Kirk & P.F. Cannon 1999, *Ascomycota* genera *incertae sedis*, one species, type: *P. nodosa* Siboe, P.M. Kirk & P.F. Cannon, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 376523.

Piricauda Bubák 1914, *Ascomycota* genera *incertae sedis*, eight species, type: *P. uleana* (Sacc. & P. Syd.) Bubák, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Whitton et al. (2012a; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Piricaudilium Hol.-Jech. 1988, *Ascomycota* genera *incertae sedis*, two species, type: *P. lobatum* Hol.-Jech., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, available specimen for type: CBS H-4357.

Piricaudiopsis J. Mena & Mercado 1987, *Ascomycota* genera *incertae sedis*, one species, type: *P. elegans* J. Mena & Mercado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Zhang et al. (2014b; transferred five species to new genus *Xiuguozhangia*), cultures and sequences are unavailable.

Pirispora Faurel & Schotter 1966, *Ascomycota* genera *incertae sedis*, one species, type: *P. trisetosa* Faurel & Schotter, coelomycetous, sexual morph unknown, saprobes, terrestrial, Algeria, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pirostomella Sacc. 1914, *Ascomycota* genera *incertae sedis*, two species, type: *P. raimundi* Sacc., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pirottaea Sacc. 1878, *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, 28 species, type: *P. veneta* Sacc. & Speg., asexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Chlebicka and Konvalinkova (2010; new species), Kirk et al. (2013; genus accepted), cultures available but lacking for the type.

Pirozynskia Subram. 1972, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. farriae* Subram., sexual morph maurodothina-like, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*), cultures and sequences unavailable.

Pirozynskiella S. Hughes 2007, *Asterinaceae*, *Asterinales*, *Dothidemycetes*, three species, type: *P. solaninum* (Sacc. & P. Syd.) S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2017; new species, phylogeny), cultures and sequences are vailable.

Pisomyxa Corda 1837, *Eurotiomycetidae* genera *incertae sedis*, one species, type: *P. rhacodioides* Corda, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available but lacking for the type.

Pisorisporium Réblová & J. Fourn. 2015, *Pisorisporiaceae*, *Pisorisporiales*, *Sordariomycetes*, one species, type: *P. cymbiforme* Réblová & J. Fourn., asexual morph unknown, from submerged branch, aquatic, France, Belgium, see Réblová et al. (2015a; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type cultures available for the type: PRM 924377; CBS 138884.

Pithomyces Berk. & Broome 1873, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, c. 38 species, type: *P. flavus* Berk. & Broome, hyphomycetous, sexual morph didymella-like, saprobes, human and plant pathogens, terrestrial, worldwide, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Irinyi et al. (2015; DNA barcodes for clinically important species), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Pithosira Petr. 1949, *Ascomycota* genera *incertae sedis*, two species, type: *P. sydowii* Petr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Ecuador, Caribbean, see Seifert et al. (2011; morphology, accepted as a genus in *Venturiaceae*), Wijayawardene et al.

(2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pithya Fuckel 1870, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, five species, type: *P. cupressina* (Batsch) Fuckel, asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Pithyella Boud. 1885, ?*Helotiaceae*, *Helotiales*, *Leotiomycetes*, eight species, type: *P. hypnina* (Quél.) Boud., asexual morph unknown, saprobes, on bryophytes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Pittostroma Kowalski & T.N. Sieber 1992, *Ascomycota* genera *incertae sedis*, one species, type: *P. abietinum* Kowalski & T.N. Sieber, coelomycetous, sexual morph unknown, saprobes, terrestrial, Poland, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: ZT.

Placella Syd. 1938, *Ascomycota* genera *incertae sedis*, one species, type: *P. fraseriana* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Placidiopsis Beltr. 1858, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 20 species, type: *P. grappae* Beltr. (=*P. cinerascens*), asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Prieto et al. (2010b; 2010c; species delimitation), Kirk et al. (2013; genus accepted), sequences are available for the type.

Placidium A. Massal. 1855, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 28 species, type: *P. michelii* A. Massal., asexual morph unknown, lichenicolous, lichenized, terrestrial, worldwide, see Gueidan et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Prieto et al. (2012; new species), Kirk et al. (2013; genus accepted), sequences are available for the voucher M. Prieto 702 of the type.

Placoasterella Sacc. ex Theiss. & Syd. 1915, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *P. schweinfurthii* (Henn.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, keys, transferred to *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Placoasterina Toro 1930, *Dothideomycetes* genera *incertae sedis*, three species, type: *P. antioquensis* Toro, asexual morph unknown, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Placocarpus Trevis. 1860, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, five species, type: *P. schaereri* (Fr.) Breuss, asexual morph unknown, lichenized, terrestrial, worldwide, see Knudsen et al. (2009a; new species, USA), Moon and Aptroot (2009; new species, South Korea), Lumbsch and Huhndorf (2010; outline), Prieto et al. (2010a; new species), Roux and Gueidan (2011; new species, France), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Placocrea Syd. 1939, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *P. pulchella* Syd., asexual morph unknown, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Placodiplodia Bubák 1916, *Ascomycota* genera *incertae sedis*, two species, type: *P. copelandii* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Placodothis Syd. 1928, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. petrakii* Syd., asexual morph unknown, saprobes, terrestrial, West Indies, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Placolecis Trevis 1857, *Catillariaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *P. balaniana* (Fr.) Trevis., asexual morph unknown, lichenized, terrestrial, Asia, Europe, see Lumbsch and Huhndorf (2010; outline), Rizzi et al. (2011; Sardinia), Tufan-Çetin and Sümbül (2011; taxonomy), Kirk et al. (2013; genus accepted), Aptroot and Moon (2014; Korea), Sipman and Raus (2015; Greece), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Placomaronea Räsänen 1944, *Candelariaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *P. candelarioides* Räsänen, asexual morph unknown, lichenized, terrestrial, America, Africa, see Westberg et al. (2009; monograph), Lumbsch and Huhndorf (2010; outline), Westberg and Sohrabi (2012; taxonomy), Kirk et al. (2013; genus accepted), Flakus et al. (2015; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Placomelan Cif. 1962, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. dipteridis* Cif., sexual morph dothidasteroma-like, epiphytes, terrestrial, see Hofmann (2009; review, accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2012, 2014c; outline), cultures and sequences are unavailable.

Placonema (Sacc. & D. Sacc.) Petr. 1921, *Ascomycota* genera *incertae sedis*, three species, type: *P. bambusacearum* (Sacc., Syd. & P. Syd.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Placonemina Petr. 1921, *Ascomycota* genera *incertae sedis*, one species, type: *P. dothideoides* (Mont.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Placopsis (Nyl.) Linds. 1866, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, 60 species, type: *P. gelida* (L.) Linds., asexual morph unknown, lichenized, terrestrial, worldwide, see Brackel and Berger (2010; *Polycoccum* host), Galloway (2010, 2013; taxonomy), Singh et al. (2010; ecology), de los Ríos et al. (2011; ecophysiology), Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2011; taxonomy, new specie), Øvstedal and Lewis Smith (2011; new species), Schmull et al. (2011; phylogeny), Raggio et al. (2012; ecophysiology), Kukwa et al. (2012; new records), Gao and Ren (2013; new records), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Schneider et al. (2016; phylogeny), sequences are available.

Placopyrenium Breuss 1987, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 22 species, type: *P. bucekii* (Nádv. & Servít) Breuss, asexual morph unknown, lichenized, terrestrial, worldwide, see Ertz et al. (2008; Europe), Gueidan et al. (2009; phylogeny), Breuss (2009; description, key), Orange (2009b; partial sequence), Lumbsch and Huhndorf (2010; outline), Aptroot et al. (2010; biodiversity), Prieto et al. (2010a, 2012; genus considered polyphyletic, phylogeny), Breuss (2011; Spain), Miller et al. (2011a, b; USA), Aptroot and Yazici (2012; new species), Kirk et al. (2013; genus accepted), Valadbeigi (2014; Iran), Sipman and Raus (2015; taxonomy), Lücking et al. (2017a; classification), Urbanavichus and Ismailov (2016; new records), sequences are available.

Placosoma Syd. 1924, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *P. nothopanacis* Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Asterinaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hongsanan et al. (2014c; taxonomy, keys, transferred to *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: PDD 1003.

Placosphaerina Maire 1917, *Ascomycota* genera *incertae sedis*, one species, type: *P. myriospora* (Pat.) Maire, coelomycetous, sexual morph unknown, saprobes, terrestrial, Algeria, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Placostromella Petr. 1947, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *P. macrospora* Petr., asexual morph unknown, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes*), Kirk et al. (2013; genus accepted), Thambugala et al. (2014b; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Placothea Syd. 1931, *Ascomycota* genera *incertae sedis*, one species, type: *P. philippinensis* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Placothelium Müll. Arg. 1893, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *P. staurothelioides* Müll. Arg., asexual morph unknown, lichenized, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Placothyrium Bubák 1916, *Ascomycota* genera *incertae sedis*, one species, type: *P. athyrinum* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Placynthiella Elenkin 1909, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, seven species, type: *P. perfurfurea* (Nyl.) Gyeln., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Voytsekhovich et al. (2011; photobiont), Joshi et al. (2011b; new records from South Korea), Kirk et al. (2013; genus accepted), Kantvilas et al. (2015; phylogeny), cultures and sequences are available but lacking for the type.

Placynthiopsis Zahlbr. 1932, *Placynthiaceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *P. africana* Zahlbr., lichenized, terrestrial, central Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al.

(2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Placynthium (Ach.) Gray. 1821, *Placynthiaceae*, *Peltigerales*, *Lecanoromycetes*, 25 species, type: *P. nigrum* (Huds.) Gray, asexual morph unknown, lichenized, terrestrial, worldwide, see Øvstedal et al. (2009; new species), Wedin et al. (2009b; phylogeny), Schmull et al. (2011; phylogeny) Lumbsch and Huhndorf (2010; outline), Urbanavichus et al. (2011; new records), Wirth et al. (2011; checklist), Yatsyna (2011; new record), Aptroot and Iqbal (2012; checklist), Hansen (2012; new records, 2014; taxonomy), Aslan (2013; new records), Kirk et al. (2013; genus accepted), McCarthy and Kantvilas (2014; new species), Miądlikowska et al. (2014a; phylogeny, systematics), Aptroot et al. (2015d; new records), Malíček et al. (2015a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Plagiascoma Réblová & J. Fourn. 2015, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, one species, type: *P. frondosum* Réblová & J. Fourn., asexual morph hyphomycetous, saprobes, terrestrial, France, see Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2017; taxonomy), holotype and ex-type: PRM 933854, CBS 139031.

Plagiophiale Petr. 1955, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *P. eucarpa* (P. Karst.) Petr., asexual morph unknown, saprobes, North America, Sweden, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Plagiosphaera Petr. 1941, *Sordariomycetes* genera *incertae sedis*, five species, type: *P. moravica* (Petr.) Petr., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Plagiostigme Syd. 1925, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. couraliae* Syd., asexual morph unknown, saprobes, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Plagiostigmella Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *P. clypeata* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plagiostoma Fuckel 1870 (= *Diplodina* Westend. 1857; = *Septomyxa* Sacc. 1884; = *Cryptodiaporthe* Petrak 1921 *fide* Rossman et al. 2015a), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, 50 species, type: *P. euphorbiae* (Fuckel) Fuckel, asexual morph coelomycetous, saprobes, terrestrial, tropical, see Sogonov et al. (2008; new species, phylogeny), Lumbsch and Huhndorf (2010; outline), Mejía et al. (2011; new species, phylogeny), Kirk et al. (2013; genus accepted), Walker et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, available specimen and cultures or the type: CBS H-17115; CBS 817.79.

Plagiostromella Höhn. 1917, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. pleurostoma* Höhn., asexual morph unknown, saprobes, India, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Planistroma A.W. Ramaley 1991, *Planistromellaceae*, *Botryosphaeriales*, *Dothideomycetes*, two species, type: *P. yuccigenum* A.W. Ramaley, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline), Minnis et al. (2012; treated as a synonym of *Kellermania*), Kirk et al. (2013; genus accepted), Monkai et al. (2013; treated as a distinct genus), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Plasia Sherwood 1981, *Ascomycota* genera *incertae sedis*, one species, type: *P. ramicola* (Cooke & Massee) Sherwood, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Platismatia W.L. Culb. & C.F. Culb. 1968, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, ten species, type: *P. glauca* (L.) W.L. Culb. & C.F. Culb., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Thell et al. (2012; phylogeny, accepted as a genus in *Parmeliaceae*), Kirk et al. (2013; genus accepted), Mitrovic et al. (2014; antimicrobial properties), cultures available for the type: AFTOL-ID 201.

Platychora Petr. 1925, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. ulmi* (J. Schröt.) Petr., asexual morph coelomycetous, lichenized, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013, 2016; accepted as a genus in *Didymellaceae*, coelomycetous), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Platygramme Fée 1874, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 30 species, type: *P. caesiopruinosa* (Fée) Fée, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2014, 2017a; phylogeny, classification), cultures and sequences are available.

Platypeltella Petr. 1929, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, three species, type: *P. smilacis* Petr., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Microthyriaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hongsanan et al. (2014c; keys, accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Asterinaceae*), Wu et al. (2014b; taxonomy, transferred to *Asterinaceae*), cultures and sequences are unavailable, holotype of type: W 257.

Platysporoides (Wehm.) Shoemaker & C.E. Babc., Can. J. Bot. 1992, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, twelve species, type: *P. chartarum* (Fuckel) Shoemaker & C.E. Babc., asexual morph unknown, saprobes, terrestrial, California, Europe and India, See Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015c; taxonomy), cultures and sequences are unavailable.

Platystomum Trevis. 1877, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, c. 20 species, type: *P. compressum* (Pers.) Trevis., asexual morph unknown, saprobes, worldwide, see Kirk et al. (2008; treated as a synonym of *Lophiostoma* Ces. & De Not.), Lumbsch and Huhndorf (2010; outline, treated as *Pleosporales*, genera *incertae sedis*), Hyde et al. (2013; accepted as a genus in *Platystomaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Platystomaceae*), Thambugala et al. (2015b; accepted as a genus in *Lophiostomataceae*), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Platythecium Staiger 2002, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 25 species, type: *P. grammitis* (Fée) Staiger, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Neuwirth et al. (2017; key), cultures and sequences are available.

Platytrachelon Réblová 2013, *Sordariomycetes* genera *incertae sedis*, one species, type: *P. abietis* (Réblová) Réblová, asexual morph unknown, saprobes, Czech Republic, Ukraine, see Réblová (2013; taxonomy phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available, holotype and cultures available for the type: PRM 842974; CBS 125235.

Plectania Fuckel 1870, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, c. 20 species, type: *P. melastoma* (Sowerby) Fuckel, asexual morph conoplea-like, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Plectocarpon Fée 1825, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, 37 species, type: *P. pseudosticta* (Fée) Fée, sexual morph with mainly multilocular-lirelliform stromatic ascomata, lichenicolous (only one lichenized), terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Frisch et al. (2014; phylogeny), Lücking et al. (2017a; classification), sequences are available but lacking for the type.

Plectomyces Thaxt. 1931, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. gracilis* Thaxt., asexual morph unknown, saprobes, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectonaemella Höhn. 1915, *Ascomycota* genera *incertae sedis*, one species, type: *P. fuckeliana* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectopeltis Syd. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *P. egenula* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central America, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectophomopsis Petr. 1922, *Ascomycota* genera *incertae sedis*, one species, type: *P. rivularis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectosira Petr. 1929, *Ascomycota* genera *incertae sedis*, one species, type: *P. adeana* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectosphaera Theiss. 1916, *Clypeophysalosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, 38 species epithets in Index Fungorum (2017), type: *P. bersamae* (Lingelsh.) Theiss., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2008; treated as a

synonym of *Phyllachora* Nitschke ex Fuckel), Maharachchikumbura et al. (2015b, 2016b; outline), Giraldo et al. (2017; phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Plectosphaerella Kleb. 1929 (= *Plectosporium* M.E. Palm et al. 1995 *fide* Maharachchikumbura et al. 2015b, 2016b; Réblová et al. 2016c), *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, 13 species, type: *P. cucumeris* Kleb., asexual morph formerly known in *Plectosporium*, pathogens, nematophagous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Carlucci et al. (2012; new species, phylogeny), Liu et al. (2013a; new species), Kirk et al. (2013; genus accepted), Crous et al. (2015d; new species), Maharachchikumbura et al. (2015b, 2016b outline, phylogeny), Réblová et al. (2016c; nomenclature), cultures and sequences are available but lacking for the type.

Plectronidiopsis Nag Raj 1979, *Ascomycota* genera *incertae sedis*, one species, type: *P. chilensis* (Speg.) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, Chile, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectronidium Nag Raj 1977, *Ascomycota* genera *incertae sedis*, four species, type: *P. sinense* Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plectrothrix Shear 1902, *Ascomycota* genera *incertae sedis*, one species, type: *P. globosa* Shear, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleiochaeta (Sacc.) S. Hughes 1951, *Pleosporineae*, *Pleosporales*, *Dothideomycetes*, four species, type: *P. setosa* (Kirchn.) S. Hughes, hyphomycetous, sexual morph unknown, pathogens, saprobes, terrestrial, North America, see Garibaldi et al. (2012; pathogens, DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Gur and Frenkel (2015; pathogens, DNA), cultures and sequences are available, cultures are available, holotype: CBS H-17161.

Pleiopatella Rehm 1908, *Ostropomycetidae* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *P. harperi* Rehm, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Pleiostomellina Bat., J.L. Bezerra & H. Maia 1964, *Dothideomycetes genera incertae sedis*, one species, type: *P. pernambucensis* Bat., J.L. Bezerra & Cavalc., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Plejobolus (E. Bommer, M. Rousseau & Sacc.) O.E. Erikss. 1967, *Dothideomycetes* genera *incertae sedis*, type: *P. arenarius* (E. Bommer, M. Rousseau & Sacc.) O.E. Erikss., data inadequate, see Kirk et al. (2008; treated as a synonym of *Robergea*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Plenocatenulis Bat. & Cif. 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. magnoliae* Bat. & Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plenodomus Preuss 1851, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 18 species, type: *P. lingam* (Tode: Fr.) Höhn., asexual morph coelomycetous, pathogens, saprobes, terrestrial, worldwide, see de Gruyter et al. (2012; taxonomy, phylogeny, treated *Plenodomus rabenhorstii* Preuss as a nom. Dub. and reduced under *Plenodomus lingam*), Hyde et al. (2013; accepted as a genus in *Leptosphaeriaceae*), Wijayawardene et al. (2014c, 2017; outline), Ariyawansa et al. (2015b; phylogeny), cultures and sequences are available, cultures available for the type: CBS 260.94 (de Gruyter et al. 2013).

Plenophysa Syd. & P. Syd. 1920, *Ascomycota* genera *incertae sedis*, one species, type: *P. mirabilis* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, Sri Lanka, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plenotrichaius Bat. & Valle 1961, *Ascomycota* genera *incertae sedis*, one species, type: *P. swartziae* Bat. & Valle, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plenotrichopsis Bat. 1961, *Ascomycota* genera *incertae sedis*, one species, type: *P. coffeae* Bat., H. Maia & C.T. Vasconc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plenotrichum Syd. 1927, *Ascomycota* genera *incertae sedis*, two species, type: *P. mirabile* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central

America, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plenozythia Syd. & P. Syd. 1916, *Ascomycota* genera *incertae sedis*, two species, type: *P. euphorbiae* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleochaeta Sacc. & Speg. 1881 emend. Kimbrough & Korf 1963, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, five species, type: *P. lynckii* (Speg.) Speg., sexual and hyphomycetous asexual morphs, biotrophic, obligate plant pathogens, terrestrial, Asia, North and South America, see Lumbsch and Huhndorf (2010; outline), Lee et al. (2011; phylogeny, Korea), Kirk et al. (2013; genus accepted), Takamatsu (2013a, b; phylogeny, phenotypic evolution), sequences are available but lacking for the type, holotype of type: LPS.

Pleocouturea G. Arnaud 1911, *Ascomycota* genera *incertae sedis*, two species, type: *P. castagnei* G. Arnaud, coelomycetous, sexual morph unknown, saprobes, terrestrial, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleocryptospora J. Reid & C. Booth 1969, *Sordariomycetes* genera *incertae sedis*, two species, type: *P. bambusae* (Speg.) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Pleogibberella Sacc. ex Berl. & Voglino 1886, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *P. calamia* (Cooke) Berl. & Voglino, asexual morph unknown, saprobe, saprobes, terrestrial, India, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pleomeliola (Sacc.) Sacc. 1899, *Ascomycota* genera *incertae sedis*, one species, type: *P. fenestrata* (Cooke & Ellis) Sacc., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae*), cultures and sequences are unavailable.

Pleomelogramma Speg. 1909, *Herpotrichiellaceae*, *Chaetothyriales*, *Chaetothyriomycetes*, one species, type: *P. argentinensis* Speg., asexual morph unknown, saprobes, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleomerium Speg. 1918, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. fuscoviridescens* (Rehm) Speg., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae* and placed in *Dothideomycetes*), cultures and sequences are unavailable.

Pleomonodictys Hern.-Restr., J. Mena & Gene 2017, *Pleomonodictydaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. descalsii* Hern.-Restr., J. Mena & Gene, hyphomycetous, sexual morph unknown, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny, designate lectotype and epitype), sequences are available.

Pleophragmia Fuckel 1870, *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. leporum* Fuckel, asexual morph unknown, saprobes, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Hyde et al. (2013; accepted as *Sporormiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pleopsidium Körb. 1855, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, four species, type: *P. flavum* Körb., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Knudsen (2011; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Lücking et al. (2017a; classification), sequences are available.

Pleoscutula Vouaux 1913, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *P. arsenii* Vouaux, asexual morph unknown, lichenicolous, terrestrial, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available but lacking for the type.

Pleoseptum A.W. Ramaley & M.E. Barr 1995, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. yuccaesedum* A.W. Ramaley & M.E. Barr, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phaeosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; excluded from *Phaeosphaeriaceae* and placed in *Pleosporaceae*), Wijayawardene et al. (2014c; accepted as a genus in *Pleosporaceae*), cultures and sequences are unavailable, holotype of the type: BPI 802381.

Pleosphaerellula Naumov & Czerepan. 1952, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *P. cornicola* Naumov & Czerepan., asexual

morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as *Pleosporales*), cultures and sequences are unavailable.

Pleosphaeria Speg. 1881, *Sordariomycetes* genera *incertae sedis*, 15 species, type: *P. australis* Speg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pleostigma Kirschst. 1939, *Dothideomycetes* genera *incertae sedis*, type: data inadequate, see Kirk et al. (2008; treated as a synonym of *Teichosporella*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Pleotrichiella Sivan. 1984, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. australiensis* Sivan., asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pleotrichocladium Hern.-Restr., R.F. Castaneda & Gene 2017, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. opacum* (Corda) Hern.-Restr., R.F. Castaneda & Gen, hyphomycetous, sexual morph unknown, saprobes, from soil, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Plesiospora Drechsler 1971, *Ascomycota* genera *incertae sedis*, one species, type: *P. globosa* Drechsler, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleuroascus Massee & E.S. Salmon 1901, *Pseudeurotiaceae*, *Leotiomycetes* families *incertae sedis*, eleven species, type: *P. nicholsonii* Massee & E.S. Salmon, saprobes, from soil, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Crous et al. (2013b; new species), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 345, available specimen for type: CBS H-7657.

Pleurocatena G. Arnaud ex Aramb., Gamundí, W. Gams & G.R.W. Arnold 2007, *Pyxidiophoraceae*, *Pyxidiophorales*, *Laboulbeniomycetes*, three species, hyphomycetous, sexual morph unknown, on nematodes, leaf litter, Europe, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Pleuroceras Riess 1854, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, twelve species, type: *P. ciliatum* Riess, asexual morph unknown, saprobes, terrestrial, north temperate, see Mejía et al. (2008; DNA, phylogeny), Sogonov et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Pleurocytospora Petr. 1923, *Ascomycota* genera *incertae sedis*, three species, type: *P. vestita* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleurodesmospora Samson, W. Gams & H.C. Evans 1979, *Ascomycota* genera *incertae sedis*, one species, type: *P. coccorum* (Petch) Samson, W. Gams & H.C. Evans, hyphomycetous, sexual morph unknown, parasites, on insects (*Aleyrodes*, aphids, leaf hoppers), mites (*Tydeus*, *Paratetranychus*) and fungi (*Meliola*), Africa, Asia, Central America, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleurodiscula Höhn. 1926, *Ascomycota* genera *incertae sedis*, one species, type: *P. neglecta* (Desm.) Höhn, coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleurodomus Petr. 1934, *Ascomycota* genera *incertae sedis*, one species, type: *P. humuli* Petr., coelomycetous, sexual morph unknown, saprobes, on decaying stems of *Humuli lupuli*, Siberia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleuropedium Marvanová & S.H. Iqbal., 1973, *Ascomycota* genera *incertae sedis*, three species, type: *P. tricladioides* Marvanová & S.H. Iqbal, sexual morph unknown, on submerged dead *Juncus effususaxes* and from foam in mountain streams, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: BRNU 445.796

Pleurophoma Höhn. 1914, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, nine species, type: *P. pleurospora* (Sacc.) Höhn., sexual morph unknown, saprobes, terrestrial, UK, see Wijayawardene et al. (2012, 2017; outline), de Gruyter et al. (2012; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Crous et al. (2015d, 2016a; new species, phylogeny), Tibpromma et al.

(2017b; new species), cultures and sequences are available, cultures available for the type: CBS 130329.

Pleurophomopsis Petr. 1924, *Ascomycota* genera *incertae sedis*, seven species, type: *P. salicicola* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. 2017; outline), cultures and sequences are unavailable.

Pleurophragmium Costantin 1888, *Sordariomycetes* genera *incertae sedis*, 29 species, type: *P. bicolor* Costantin, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widely distributed, see Réblová (2009; phylogeny), D'Souza and Bhat (2012; key), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015; outline), Dai et al. (2017; morphology, phylogeny), cultures and sequences are available but lacking for type.

Pleuroplaconema Petr. 1923, *Ascomycota* genera *incertae sedis*, two species, type: *P. sambuci* Petr., coelomycetous, sexual morph unknown, endophytes, Europe and Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleuroplacosphaeria Syd. 1928, *Ascomycota* genera *incertae sedis*, one species, type: *P. negeriana* Syd., coelomycetous, sexual morph unknown, saprobes, Chile, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleurosticta Petr. 1931, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *P. lichenicola* Petr., asexual morph unknown, lichenized, terrestrial, Asia, Europe, Africa, see Lumbsch and Huhndorf (2010; outline), Crespo et al. (2011; generic concept), Hawksworth et al. (2011a; checklist), Schmull et al. (2011; sequence), Kirk et al. (2013; genus accepted), Millot et al. (2014; cancer), Favero-Longo et al. (2015; saxicolous community), Papazi et al. (2015; symbiosis), Kaźmierska and Kossowska (2016; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Pleurostoma Tul. & C. Tul. 1863 (= *Pleurostomophora* Vijaykr. et al. 2004 *fide* Maharachchikumbura et al. (2015b, 2016b; Réblová et al. 2016c), *Pleurostomataceae*, *Calosphaeriales*, *Sordariomycetes*, seven species, type: *P. candollei* Tul. & C. Tul., asexual morph hyphomycetous, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2015b, 2016c; new species, nomenclature), cultures and sequences are available but lacking for the type.

Pleurostromella Petr. 1922, *Cucurbitariaceae*, *Pleosporales, Dothideomycetes*, 15 species, type: *P. ulmicola* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Phookamsak and Hyde (2015; accepted as in *Fenestellaceae*), Wanasinghe et al. (2017b; treated *Fenestellaceae* as a synonym of *Cucurbitariaceae*) cultures and sequences are unavailable.

Pleurotheciella Réblová, Seifert & J. Fourn. 2012, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, nine species, type: *P. rivularia* Réblová, Seifert & J. Fourn., asexual morph hyphomycetous, saprobes, terrestrial, terrestrial, Europe, Canada, see Réblová et al. (2012; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type cultures of the type: PRM 899852; CBS 125238.

Pleurotheciopsis B. Sutton 1973, *Ascomycota* genera *incertae sedis*, seven species, type: *P. pusilla* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, on litter (*Calophyllum*, *Castanea*, *Rubus*) and bank (*Betula*, *Ilex*, Salix), Caribbean, Europe, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: IMI 168990.

Pleurothecium Höhn. 1919 (= *Carpoligna* F.A. Fernández & Huhndorf 1999 *fide* Réblová et al. 2016c), *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, nine species, type: *P. recurvatum* (Morgan) Höhn., hyphomycetous, sexual morph formerly named in *Carpoligna*, saprobes, terrestrial, terrestrial, Europe, Canada, see Wu and Zhang (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Réblová et al. (2012, 2016c; taxonomy, phylogeny, nomenclature), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 138686.

Pleurothyriella Petr. & Syd. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *P. pinastri* (Oudem.) Petr. & Syd., coelomycetous, sexual morph unknown, saprobes, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pleurovularia R. Kirschner & U. Braun 2002, *Ascomycota* genera *incertae sedis*, one species, type: *P. polliniae* (Henn.) R. Kirschner & U. Braun (≡ *Ovularia polliniae* Henn.), hyphomycetous, terrestrial, plant pathogens, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline),

cultures and sequences are unavailable, holotype of type: Yoshinaga 25 (B).

Pliariona A. Massal. 1860, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *P. montagnei* (Bosch) A. Massal., asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2013; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Plicaria Fuckel 1870, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, ten species, type: *P. trachycarpa* (Curr.) Boud., asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: DAOM 195830, genus needs revision since it is polyphyletic.

Plicariella (Sacc.) Rehm 1894, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *P. radula* (Berk. & Broome) Rehm, asexual morph unknown, saprobes, see Kirk et al. (2013; did not list), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Plochmopeltis Theiss. 1914, *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, five species, type: *P. intricata* (Ellis & G. Martin) Theiss., asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013, accepted as a genus in *Schizothyriaceae*), Wijayawardene et al. (2014c; outline), Phookamsak et al. (2016; taxonomy), cultures and sequences are unavailable.

Ploettnera Henn. 1900, *Calloriaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *P. caeruleoviridis* (Rehm) Henn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ploioderma Darker 1967 (= *Cryocaligula* Minter 1986 *fide* Johnston et al. 2014b), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, seven species, type: *P. hedgcockii* (Dearn.) Darker, asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Shi et al. (2010; new species, China), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available but lacking for the type.

Plokamidomyces Bat., C.A.A. Costa & Cif. 1957, *Euantennariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *P. colensoi* Bat., C.A.A. Costa & Cif., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Oceania, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plowrightia Sacc. 1883, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, more than 50 species, type: *P. ribesia* (Pers.) Sacc., asexual morph coelomycetous, parasitic or saprobes on leaves, twigs and wood in terrestrial habitats, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014b; phylogeny), Wijayawardene et al. (2014c; outline), sequence data available for two species, holotype of type: cannot be located.

Plurisperma Sivan. 1970, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *P. dalbergiae* Sivan., asexual morph unknown, saprobes, terrestrial, Pakistan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Plurispermiopsis Pereira-Carv., Inácio & Dianese 2010, *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. cerradensis* Pereira-Carvalho, Inácio & Dianese, asexual morph unknown, saprobes, terrestrial, Brazil, see Pereira-Carvalho et al. (2010; taxonomy), cultures and sequences are unavailable.

Pneumocystis Delanoë & Delanoë 1912, *Pneumocystidaceae*, *Pneumocystidales*, *Pneumocystidomycetes*, five species, type: *P. carinii* P. Delanoë & Delanoë, asexual reproduction occurs by binary fission, pathogens, on mammals (frequent cause of pneumonia in HIV/AIDS patients), worldwide, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Poaceascoma Phook. & K.D. Hyde 2015, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. helicoides* Phook. & K.D. Hyde, asexual morph unknown, saprobes, Asia, see Phookamsak et al. (2015a; taxonomy), Luo et al. (2016b; new species), cultures and sequences are available.

Poaceicola W.J. Li, Camporesi, D.J. Bhat & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *P. arundinis* W.J. Li, Camporesi, D.J. Bhat & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Italy, see Li et al. (2015c; taxonomy, phylogeny), Wijayawardene et al. (2016b; taxonomy, phylogeny), Hyde et al. (2016; taxonomy, phylogeny), Thambugala et al. (2017b, new species, phylogeny), holotype of the type: MFLU 15–0702.

Pochonia Bat. & O.M. Fonseca 1965, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *P. humicola* Bat. & O.M. Fonseca, asexual morph unknown, saprobes, from soil, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Nonaka et al. (2013c; new species, Japan), Huang et al. (2015a; new species, Tibet, China), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type, type specimen of type: CBS H-7885.

Pocillopycnis Dyko & B. Sutton 1979, *Ascomycota* genera *incertae sedis*, one species, type: *P. umensis* (Bubák & Vleugel) Dyko & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Sweden, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pocillum De Not. 1864, *Vibrisseaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. cesatii* (Mont.) De Not., asexual morph unknown, saprobes on fruits and leaves, Europe and America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), DNA sequences and cultures unavailable.

Poculinia Spooner 1987, *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. nothofagi* (Rodway) Spooner, asexual morph unknown, saprobes, terrestrial, Tasmania, see Lumbsch and Huhndorf (2010; outline, listed as *Poculina*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Podocapsa Tiegh. 1887, *Ascomycota* genera *incertae sedis*, one species, type: *P. palmata* Tiegh., asexual morph unknown, saprobes, terrestrial, Europe, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pododimeria E. Müll. 1959, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, four species, type: *P. gallica* E. Müll., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Podonectria Petch 1921, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, nine species, type: *P. coccicola* (Ellis & Everh.) Petch, asexual morph unknown, associated with scale insects, widespread in tropical regions, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Tubeufiaceae*), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Podophacidium Niessl 1868, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *P. terrestre* Niessl, asexual morph unknown, saprobes, terrestrial, terrestrial, Europe, North America see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Podoplaconema Petr. 1921, *Ascomycota* genera *incertae sedis*, one species, type: *P. melaenum* (Fr.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2014c; genus accepted, in *Dothideaceae*), Hyde et al. (2013; genus accepted, in *Dothideaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; listed genus as *Ascomycota*), cultures and sequences are unavailable, isosyntype of type: B (also distributed in Scleromyceti Suecicae no. 200).

Podosordaria Ellis & Holw. 1897 (= *Pedisordaria* Clem. 1909 *fide* Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *P. mexicana* Ellis & Holw., asexual morph hyphomycetous, saprobes, coprophilous, terrestrial, worldwide, see Hsieh et al. (2010; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; phylogeny), sequences are available for the voucher 176 (WSP) of the type.

Podosphaera Kunze 1823 emend. Braun & Takamatsu 2000, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, 95 species, type: *P. myrtillina* (Schub. : Fr.) Kunze, sexual and hyphomycetous asexual morphs, biotrophic, obligate plant pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Takamatsu et al. (2010; phylogeny), Braun and Cook (2012; taxonomy), Kirk et al. (2013; genus accepted), sequences are available, neotype of type: Fungi Saxon. Exs. 72b. (HAL).

Podospora Ces. 1856, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, c. 100 species, type: *P. fimiseda* (Ces. & De Not.) Niessl, asexual morph consists of dark celled phialides such as *Cladorrhinum*, *Phialophora*, *Rhizoctonia*, *Ramophialophora*, saprobes on dung of animals, worldwide, see Lumbsch and Huhndorf (2010; outline), Chang et al. (2010; phylogeny), Mungai et al. (2012c; from dung), Kirk et al. (2013; genus accepted), Kruys et al. (2015; phylogeny), Melo et al. (2015, taxonomy), about 24 species have sequence data, cultures available for the type: CBS 482.64.

Podosporiella Ellis & Everh. 1895, *Ascomycota* genera *incertae sedis*, four species, type: *P. humilis* Ellis & Everh, hyphomycetous, sexual morph unknown, saprobes, on leaves (*Garry*, *Faurea*), Africa, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Podosporiopsis Jian Ma, X.G. Zhang & R.F. Castañeda 2016, *Ascomycota* genera *incertae sedis*, two species, type: *P. sinensis* Jian Ma, X.G. Zhang & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobic, terrestrial, China, see Ma et al. (2016b; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Podosporium Schwein. 1832, *Ascomycota* genera *incertae sedis*, 67 species, type: *P. rigidum* Schwein, hyphomycetous, sexual morph unknown, saprobes, on dead stems and litter (*Ampelopsis*, *Bambusa*, *Rhus* and others),

terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Podostictina Clem. 1909, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, six species, type: *P. endochrysoides* (Müll. Arg.) Clem., lichenized, see Moncada et al. (2013a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Podotara Malcolm & Vězda 1996, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *P. pilophoriformis* Malcolm & Vězda, asexual morph unknown, lichenized, terrestrial, New Zealand, see Hsieh et al. (2010; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available, holotype of type: CHR 486638.

Poeltiaria Hertel 1984, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, six species, type: *P. turgescens* (Körb.) Hertel, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Fryday and Hertel (2014; new species, Antarctica, Tasmania), Lücking et al. (2017a; classification), cultures and sequences are available for an unidentified species but lacking for the type.

Poeltidea Hertel & Hafellner 1984, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, three species, type: *P. perusta* (Nyl.) Hertel & Hafellner, asexual morph unknown, lichenized, terrestrial, Kerguelen, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Fryday and Hertel (2014; new species, New Zealand), Lücking et al. (2017a; classification), cultures and sequences are unavailable, lectotype of type: BM.

Poeltinula Hafellner 1984, *Rhizocarpaceae*, *Rhizocarpales*, *Lecanoromycetes*, two species, type: *P. cerebrina* (DC.) Hafellner, asexual morph unknown, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Poetschia Körb. 1861, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, four species, type: *P. buellioides* Körb., asexual morph unknown, saprobes, terrestrial, Europe, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; taxonomy), cultures and sequences are unavailable.

Poikilosperma Bat. & J.L. Bezerra 1961, *Ascomycota* genera *incertae sedis*, one species, type: *P. scutellare* Bat. & J.L. Bezerra, coelomycetous, sexual morph unknown, saprobes, on leaves of *Brosimum*, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polaroscyphus Huhtinen 1987, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. spetsbergianus* Huhtinen, asexual morph unknown, saprobes, terrestrial, Svalbard, Norway, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polistroma Clemente 1807, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *P. fernandezii* Clemente, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lumbsch et al. (2014a, b; taxonomy), Lücking et al. (2017a; classification), sequences and cultures are unavailable.

Polyancora Voglmayr & Yule 2006, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *P. globosa* Voglmayr & Yule, sexual morph unknown, saprobes, submerged leaves, Peninsular Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type strains of type: WU 26489; CBS 118182.

Polyandromyces Thaxt. 1920, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. coptosomatis* Thaxt., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences available for the type: KT800020, KT800035.

Polyascomyces Thaxt. 1900, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. trichophyae* Thaxt., asexual morph unknown, saprobes, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polyblastia A. Massal. 1852, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 120 species, type: *P. cupularis* A. Massal., asexual morph unknown, saprobes, terrestrial, worldwide, see Savić et al. (2008; phylogeny), Lumbsch and Huhndorf (2010; outline), Savić and Tibell (2012; northern Europe, adjacent Arctic), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Polyblastidium Kalb 2015, *Physciaceae*, *Caliciales*, *Lecanoromycetes*, 18 species, type: *P. japonicum* (M. Satô) Kalb, lichenized, worldwide, see Mongkolsuk et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Polybulbophiale Goh & K.D. Hyde 1998, *Ascomycota* genera *incertae sedis*, one species, type: *P. palmicola* Goh & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, on palm petiole (*Licuala*), Brunei, see Seifert

et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: HKU (M) 4717.

Polycauliona Hue 1908, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 25 species, type: *P. regalis* (Vain.) Hue, lichenized, see Arup et al. (2013; phylogeny), Kondratyuk et al. (2014; phylogeny), Jaklitsch et al. (2016a; notes), Lücking et al. (2017a; classification), cultures and sequences are available.

Polycephalomyces Kobayasi 1941, *Ophiocordycipitaceae*, *Hypocreales*, *Sordariomycetes*, twelve species, type: *P. formosus* Kobayasi, hyphomycetous, on insects, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kepler et al. (2013; new species), Kirk et al. (2013; genus accepted), Matočec et al. (2014; revision), Quandt et al. (2014; nomenclature), cultures and sequences are available.

Polychaetella Speg. 1918, *Ascomycota* genera *incertae sedis*, three species, type: *P. schweinitzii* (Berk. & Desm.) Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polychidium (Ach.) Gray 1821, *Massalongiaceae*, *Peltigerales*, *Lecanoromycetes*, c. ten species, type: *P. muscicola* (Sw.) Gray, asexual morph unknown, lichenized, terrestrial, worldwide, see Wedin et al. (2009b; phylogeny), Hansen (2009; Iceland), Lumbsch and Huhndorf (2010; outline), Muggia et al. (2011b; phylogeny, systematics), Anderson and Neily (2012; Nova Scotia), Jayalal et al. (2012a; new records), Kirk et al. (2013; genus accepted), Weerakoon and Aptroot (2016; checklist), Lücking et al. (2017a; classification), sequences are available.

Polycladium Ingold. 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. equiseti* Ingold, sexual morph unknown, found on dead internodes of *Equisetum fluviatile*, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 73532.

Polyclypeolina Bat. & I.H. Lima 1959, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. brideliae* (Hansf.) Bat., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review, accepted as a genus in *Aulographaceae*), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Aulographaceae*), Hyde et al. (2013; review, excluded from *Aulographaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*), cultures and sequences are unavailable, holotype of type: K(M) 177972.

Polycoccum Saut. ex Körb. 1865, *Polycoccaceae*, *Trypetheliales*, *Dothideomycetes*, 66 species, type: *P. sauteri* Körb., asexual morph unknown, saprobes, lichenicolous, terrestrial, worldwide, see Etayo (2010; new species), Brackel and Berger (2010; new species), Lumbsch and Huhndorf (2010; outline), Zhurbenko and Dillman (2010; new species), van den Boom (2012; new species), Hyde et al. (2013; outline, accepted as a genus in *Dacampiaceae*), Halici et al. (2013; new species, Turkey), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Ertz et al. (2015a; phylogeny, introduced *Polycoccaceae*), Hafellner (2015; new species), cultures and sequences are available but lacking for the type.

Polycyclina Theiss. & Syd. 1915, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, one species, type: *P. rhytismoides* (Speg.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Polycyclinopsis Bat., A.F. Vital & I.H. Lima 1958, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. solani* Bat., A.F. Vital & I.H. Lima, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Polycyclus Höhn. 1909, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, two species, type: *P. andinus* (Pat.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, São Paulo, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, keys), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Polydesmia Boud. 1885, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, seven species, type: *P. pruinosa* (Berk. & Broome) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Polydesmus Mont. 1845, *Ascomycota* genera *incertae sedis*, 14 species, type: *P. elegans* Durieu & Mont., hyphomycetous, sexual morph unknown, saprobes, terrestrial, American, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Polydiscidium Wakef. 1934, *Leotiomycetes* genera *incertae sedis*, seven species, type: *P. martynii* Wakef., asexual morph unknown, saprobes, Africa, Guyana, worldwide, see Lumbsch and Huhndorf (2010; outline),

Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polydiscina Syd. 1930, *Leotiomycetes* genera *incertae sedis*, one species, type: *P. boliviana* Syd., asexual morph unknown, saprobes, terrestrial, Bolivia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polyetron Bat. & Peres 1963, *Ascomycota* genera *incertae sedis*, one species, type: *P. myrtaceicola* Bat. & Peres, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polylobatispora Matsush. 1996, *Ascomycota* genera *incertae sedis*, two species, type: *P. deltoidea* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Moro et al. (2015; new species, key), cultures and sequences are unavailable, holotype of the type: Matsushima Fungus Collection, Kobe, 5T195.

Polymeridium (Müll. Arg.) R.C. Harris 1980, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, 50 species, type: *P. contendens* (Nyl.) R.C. Harris, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Aptroot and Cáceres (2014; key), Aptroot and Lücking (2016; monograph), Lücking et al. (2017a; classification), cultures and sequences are available.

Polypedia Bat. & Peres 1959, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *P. leopoldinensis* Bat. & Peres, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013; not accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; not accepted as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polyphialoseptoria Quaedvl., R.W. Barreto, Verkley & Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. terminaliae* Quaedvl., R.W. Barreto, Verkley & Crous, coelomycetous, sexual morph unknown, pathogens, terrestrial, Brazil, see Quaedvlieg et al. (2013; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type: CBS H-21298; CBS 135106.

Polyplosphaeria Kaz. Tanaka & K. Hiray. 2009, *Tetraplosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. fusca* Kaz. Tanaka & K. Hiray., asexual morph hyphomycetous, saprobes, terrestrial, Japan, Thailand, see Tanaka et al. (2009; morphology, phylogeny), Li et al. (2016a; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type: HHUF 29399; JCM 13175.

Polypyrenula D. Hawksw. 1985, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, one species, type: *P. sexlocularis* (Müll. Arg.) D. Hawksw., asexual morph unknown, on bark, doubtfully lichenized, terrestrial, Caribbean, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type: G.

Polyrhizon Theiss., Syd. & P. Syd. 1914, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. terminaliae* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, India, South Africa, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Polyrostrata T.P. Devi & N. Mathur 2009, *Ascomycota* genera *incertae sedis*, two species, type: *P. indica* T.P. Devi & N. Mathur, coelomycetous, sexual morph unknown, pathogens, terrestrial, India, see Mathur et al. (2009; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, holotype of the type: HCIO 46892.

Polyschema H.P. Upadhyay 1966, *Latoruaceae*, *Pleosporales*, *Dothideomycetes*, 21 species, type: *P. terricola* H.P. Upadhyay 1966, hyphomycetous, sexual morph not unknown, saprobes, one species from human clinical sample, terrestrial, cosmopolitan, see Mota et al. (2008; new species, key), Shenoy et al. (2010; monophyly within *Pleosporales*), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2015d; placement in *Latoruaceae*), ex-type of the type: CBS 301.65.

Polyscytalum Riess 1853, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, 13 species, type: *P. fecundissimum* Riess, hyphomycetous, saprobes, pathogens, terrestrial, worldwide, see Cheewangkoon et al. (2009; new species, Portugal), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), Senanayake et al. (2015; phylogeny), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available, available specimen and cultures for the type: CBS H-6049; CBS 100506.

Polysporella Woron. 1916, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. woronowii* Woron., see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list).

Polysporidiella Petr. 1960, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. iranica* Petr., asexual morph unknown, saprobes, terrestrial, Iran, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Polysporina Vězda [nom. cons.] 1978, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, ten species, type: *P. simplex* (Taylor) Vězda, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Polystigma DC. 1815 (= *Polystigmina* Sacc. 1884, *Rhodoseptoria* Naumov 1913 *fide* Maharachchikumbura et al. 2015b, 2016b; Réblová et al. 2016c), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, 25 species, type: *P. rubrum* (Pers.) DC., pathogens, worldwide, see Suzuki et al. (2008; pathogens, Japan), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Habibi and Banihashemi (2016; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Polystomellina Bat. & A.F. Vital 1958, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. didymopanacis* Bat. & A.F. Vital, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Polystomellomyces Bat. 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. atheniensis* Bat., coelomycetous, sexual morph unknown, saprobes, terrestrial, Greece, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Polystomellopsis F. Stevens 1924 [1923], *Dothideomycetes* genera *incertae sedis*, one species, type: *P. mirabilis* F. Stevens, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Polystratorictus Matsush. 1993, *Ascomycota* genera *incertae sedis*, two species, type: *P. fusarioideus* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Peru, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Matsushima Fungus Collection, Kobe, 0P-353.

Polythrincium Kunze 1817 (= *Cymadothea* F.A. Wolf 1935 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *P. trifolii* Kunze, hyphomycetous, sexual morph formerly known in *Cymadothea*, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline, sexual morph), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; nomenclature), Rossman et al. (2015b; nomenclature), Tibpromma et al. (2017b; phylogeny), cultures and sequences are available.

Polytolypa J.A. Scott & Malloch 1993, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *P. hystricis* J.A. Scott & Malloch, asexual morph unknown, coprophilous, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hirooka et al. (2016; phylogeny), cultures and sequences are available, cultures available for the type: UAMH 7299, holotype of type: TRTC 51349.

Polytretophora Mercado 1983, *Ascomycota* genera *incertae sedis*, one species, type: *P. calcarata* Mercado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pontogeneia Kohlm. 1975, *Koralionastetaceae*, *Koralionastetales*, *Sordariomycetes*, eight species, type: *P. padinae* Kohlm., asexual morph unknown, saprobes, marine, worldwide, Campbell et al. (2009a; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data available for one species, holotype of type: J.K. 3541a = 00985934, NYBG.

Pontoporeia Kohlm. 1963, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. biturbinata* (Durieu & Mont.) Kohlm., asexual morph coelomycetous, saprobes, marine, Mediterranean Sea, see Jones et al. (2009b, 2015; classification), Suetrong et al. (2009; phylogeny, morphology), Zhang et al. (2012e, 2013c; morphology, phylogeny), Hyde et al. (2013; morphology, phylogeny), Wijayawardene et al. (2014c; phylogeny, nomenclature), cultures and sequences are available.

Populocrescentia Wanas., E.B.G. Jones & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. forlicesenensis* Wanas., Camporesi, E.B.G. Jones & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, Russia, see Ariyawansa et al. (2015a; taxonomy, phylogeny), cultures and sequences are available, holotype and ex-type strains of type: MFLU 15-1504; MFLUCC 14-0651.

Porina Ach. [nom. cons.] 1883, *Porinaceae*, *Ostropales*, *Lecanoromycetes*, 140 species, type: *P. nucula* Ach.,

lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Porobeltraniella Gusmão 2004, *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *P. porosa* (Piroz. & S.D. Patil) Gusmão, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Rajeshkumar et al. (2016; phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available, available specimen and cultures available for the type: IMI 234741; NFCCI 3994 (Rajeshkumar et al. 2016).

Porocercospora Amaradasa, Amundsen, Madrid & Crous 2014, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. seminalis* (Ellis & Everh.) Amaradasa, Amundsen, H. Madrid & Crous, hyphomycetous, sexual morph unknown, pathogens, USA, see Amaradasa et al. (2014; morphology, phylogeny), cultures and sequences are available, epitype and ex-epitype culture of type: CBS H-21149, CBS 134906.

Porocladium Descals., 1976, *Ascomycota* genera *incertae sedis*, one species, type: *P. aquaticum* Descals, hyphomycetous, sexual morph unknown, saprobes, terrestrial, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 199900.

Porocyphus Körb. 1855, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, eight species, type: *P. coccodes* Flot. ex Körb., asexual morph unknown, lichenized, terrestrial, worldwide, see Högnabba et al. (2009a, b; evolution of photobiont), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type.

Poroleprieuria M.C. González, Hanlin, Ulloa & Elv. Aguirre 2004, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. rogersii* M.C. González, Hanlin, Ulloa & Elv. Aguirre, asexual morph hyphomycetous, saprobes, terrestrial, Mexico, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; phylogeny), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable, holotype of the type: MEXU 23019.

Poronia Willd. 1787, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *P. gleditschii* Willd., asexual morph unknown, saprobes, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hembrom et al. (2013; new species, India), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; phylogeny), cultures and sequences are available but lacking for the type.

Poropeltis Henn. 1904, *Ascomycota* genera, one species, type: *P. davillae* Henn., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Porophilomyces U. Braun 2000, *Ascomycota* genera *incertae sedis*, one species, type: *P. poricola* (Bonar) U. Braun, hyphomycetous, terrestrial, fungicolous, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype and isotype of type: UC 1272179; UC 568840.

Porophoromyces Thaxt. 1926, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. tmesiphori* Thaxt., asexual morph unknown, biotrophic, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Porosubramaniania Hol.-Jech. 1985, *Ascomycota* genera *incertae sedis*, two species, type: *P. moniliformis* Hol.-Jech., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Porpidia Körb. 1855, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, 50 species, type: *P. trullisata* (Kremp.) Körb., lichenized, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Schmull et al. (2011; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Porpidinia Timdal 2010, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *P. tumidula* (Sm.) Timdal (*Lichen tumidulus* Sm.), lichenized fungi, saxicolous, Europe, North Africa, see Timdal (2010; phylogenetic placement based on anatomical characters), Lücking et al. (2017b: classification), sequences are unavailable, holotype of type: Smith s.n., LINN.

Psora Hoffm. 1796, *Psoraceae*, *Lecanorales*, *Lecanoromycetes*, c. 35 species, type: *P. decipiens* (Hedw.) Hoffm. (*Lichen decipiens* Hedw.), lichenized fungi, saxicolous, terricolous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Psorinia Gotth. Schneid. 1980, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, c. 15 species, type:

P. conglomerata (Ach.) Gotth. Schneid. (*Lecidea conglomerata* Ach.), lichenized, saxicolous, temperate northern hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Porrectotheca Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *P. divaricata* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Matsushima Fungus Collection, Kobe, 5H436.

Potamomyces K.D. Hyde 1995, *Ascomycota* genera *incertae sedis*, one species, type: *P. armatisporus* K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: BRIP 21490.

Potridiscus Döbbeler & Triebel 2000, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. polymorphus* Döbbeler & Triebel, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: M Rambold 3269.

Potriphila Döbbeler 1996, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *P. navicularis* Döbbeler, asexual morph unknown, saprobes, terrestrial, Austria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: M (Döbbeler 6759).

Praelongicaulis E.B.G. Jones, Abdel-Wahab & K.L. Pang 2015, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *P. kandeliae* (Abdel-Wahab & E.B.G. Jones) E.B.G. Jones, Abdel-Wahab & K.L. Pang, asexual morph unknown, saprobes, marine, Hong Kong, see Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015, phylogeny, nomenclature), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type of the type: IMI 379307; CY 1492.

Pragmopora A. Massal 1855 (= *Pragmopycnis* B. Sutton & A. Funk 1975 *fide* Johnston et al. 2014b), *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, seven species, type: *P. amphibola* A. Massal., asexual morph formerly known in *Pragmopycnis*, saprobes, common in temperate northern hemisphere, see Kirk et al. (2013; genus accepted), Quijada et al. (2015; phylogeny), lectotype in Royal Botanic Gardens (K), cultures and sequences are unavailable.

Prataprajella Hosag. 1992, *Meliolaceae*, *Meliolales*, *Sordariomycetes*, two species, type: *P. turpiniicola* (Hosag.) Hosag., asexual morph unknown, saprobes, terrestrial, India, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; treated as a doubtful genus in *Meliolaceae*), cultures and sequences are unavailable.

Premilcurensis Tibpromma, Camporesi & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. senecionis* Tibpromma, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, Italy, see Tibpromma et al. (2015; taxonomy), holotype: MFLU 14-0678, cultures and sequences are available.

Preussia Fuckel 1867 (= *Sporormiella* Ellis & Everh. 1892; = *Sporormiella* Arx & Aa 1987 *fide* Hyde et al. 2013), *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, 49 species, type: *P. funiculata* (Preuss) Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Chang and Wang (2009; new species), Kruys and Wedin (2009; new species), Schoch et al. (2009; phylogeny), Asgari and Zare (2010; new species), Lumbsch and Huhndorf (2010; outline), Mungai et al. (2012d; *Sporormiella* from dung), Hyde et al. (2013; accepted as a genus in *Sporormiaceae*, phylogeny), Kirk et al. (2013; genus accepted), Mapperson et al. (2014; endophytes), Wijayawardene et al. (2014c; outline), Kruys (2015; new species, Sweden), cultures and sequences are available, type specimen and cultures available for the type: CBS H-17339; CBS 659.74.

Priceomyces Kurtzman & M. Suzuki 2010, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, nine species, type: *P. haplophilus* (Shifrine & Phaff) M. Suzuki, asexual reproduction is by multilateral budding, saprophytic, in tree fluxes, spoiled wine, alpechin, soil, insect frass in various trees, worldwide, see Kurtzman and Suzuki (2010; taxonomy), Crous et al. (2016b; new species), cultures and sequences are available.

Prillieuxina G. Arnaud 1918 (= *Leprieurina* G. Arnaud 1918 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015a), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, 55 species, type: *P. winteriana* (Pazschke) G. Arnaud, asexual morph unknown, parasymbiont on *Pertusaria*, terrestrial, tropical, see Hosagoudar and Chandraprabha (2009b; new species), Lumbsch and Huhndorf (2010; outline), Hosagoudar (2012; new species, India), Hosagoudar and Divya (2013; new species, India), Hyde et al. (2013; accepted as a genus in *Asterinaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Gautam (2015; new species), Guatimosim et al. (2015; phylogeny), Rossman et al. (2015b; nomenclature), cultures and sequences are available but lacking for the type.

Pringsheimia Schulzer 1866, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, nine species, type: *P. rosarum* Schulzer, asexual morph unknown, parasitic

or saprobes, terrestrial habitats, worldwide, see Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; review), Wijayawardene et al. (2014c; outline), sequence data available for one species, but no ex-type sequence data are available.

Proboscispora Punith. 1984, *Ascomycota* genera *incertae sedis*, one species, type: *P. manihotis* Punith., coelomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Proliferodiscus J.H. Haines & Dumont 1983, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, eight species, type: *P. inspersus* (Berk. & M.A. Curtis) J.H. Haines & Dumont, asexual morph unknown, saprobes, terrestrial, worldwide, see Hofton et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Proliferosphaera T.P. Devi 2012, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. capsici* T.P. Devi, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Devi et al. (2012; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are available, cultures available for the type: PP-2011 isolate 6494, holotype of type: ITCC 6494.

Prolixandromyces R.K. Benj. 1970, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eight species, type: *P. veliae* R.K. Benj., asexual morph unknown, parasitic on Veliidae bugs, semiaquatic, Africa, Asia, Central America, Europe, see Weir (2008; review), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pfliegler et al. (2016b; taxonomy), cultures unavailable, sequences are available but lacking for the type.

Pronectria Clem. 1931, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, 41 species, type: *P. lichenicola* (Ces.) Clem., asexual morph hyphomycetous, parasymbiont to parasites on lichens, more rarely algae, worldwide, see Etayo and Sancho (2008; morphology, keys), López et al. (2009; new species), Brackel (2014; morphology), Maharachchikumbura et al. (2015b, 2016b; outline), sequence data only for the type *P. robergei* as *Illosporium carneum* (ATCC 201590), lectotype of type: PC, Roberge.

Propolidium Sacc. 1884, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *P. glaucum* (Ellis) Sacc., asexual morph unknown, saprobes, terrestrial, Africa, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Propolina Sacc. 1884, *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *P. cervina* Sacc., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Propolis (Fr.) Corda 1838, *Marthamycetaceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *P. farinosa* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, Asia, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Proprioscypha Spooner 1987, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. corticicola* Spooner, asexual morph unknown, saprobes, pathogens, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Prosopidicola Crous & C.L. Lennox 2004, *Prosopidicolaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *P. mexicana* Crous & C.L. Lennox, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Wijayawardene et al. (2012, 2017; outline), Crous et al. (2016b; new species, phylogeny), cultures are available.

Prosthemium Kunze 1817 (= *Pleomassaria* Speg. 1880 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, c. seven species, type: *P. betulinum* Kunze, coelomycetous, sexual morph formerly known in *Pleomassaria*, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline, sexual morph), Tanaka et al. (2010; taxonomy, phylogeny), Wijayawardene et al. (2012, 2014c, 2016b; outline, taxonomy, nomenclature), Zhang et al. (2012e; accepted as a genus in *Pleomassariaceae*, phylogeny), Hyde et al. (2013; accepted as a genus in *Pleomassariaceae*), Rossman et al. (2015b; nomenclature), Ariyawansa et al. (2016b; new species), cultures available for the type: CBS 279.74.

Prostratus Sivan., W.H. Hsieh & Chi Y. Chen 1993, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. cyclobalanopsidis* Sivan., W.H. Hsieh & Chi Y. Chen, asexual morph unknown, saprobes, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable, holotype of type: IMI 354625.

Protoblastenia (Zahlbr.) J. Steiner 1911, *Psoraceae*, *Lecanorales*, *Lecanoromycetes*, 30 species, type: *P. rupestris* (Scop.) J. Steiner, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and

Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures available for the type: Prorup415.

Protocrea Petch 1937, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *P. farinosa* (Berk. & Broome) Petch, asexual morph acremonium-like, saprobes, terrestrial, worldwide, see Jaklitsch et al. (2008; new species, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, epitype and cultures available for the type: BPI 747356; CBS 121554.

Protocreopsis Yoshim. Doi 1977, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, twelve species, type: *P. zingibericola* Yoshim. Doi, asexual morph acremonium-like, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lechat and Fournier (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Protocucurbitaria Naumov 1951, *Sordariomycetes* genera *incertae sedis*, six species, type: *P. ribicola* Naumov, asexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Protomicarea Hafellner 2001, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *P. limosa* (Ach.) Hafellner, asexual morph unknown, lichenized, terrestrial, Europe, Turkey, see Lumbsch and Huhndorf (2010; outline), Kınalıoglu and Aptroot (2011; new records in Turkey), Schmull et al. (2011; phylogeny), cultures available for the type: Obermayer 07939 (Schmull et al. 2011).

Protomyces Unger 1833, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, ten species, type: *P. macrosporus* Unger, asexual morph unknown, biotrophic on plants, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available, available specimen of type: CBS H-17359.

Protomycopsis Magnus 1905, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, ten species, type: *P. leucanthemiP* Magnus, asexual morph unknown, biotrophic on plants, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Protopannaria (Gyeln.) P.M. Jørg. & S. Ekman 2000, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, five species, type: *P. pezizoides* (Weber) P.M. Jørg. & S. Ekman, lichenized, Southern Hemisphere, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are available.

Protoparmelia M. Choisy 1929, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 35 species, type: *P. badia* (Hoffm.) Hafellner, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Papong et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Protoparmeliopsis Choisy 1929, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, 20 species, type: *P. muralis* (Schreb.) M. Choisy, lichenized, see Kondratyuk et al. (2015f; taxonomy), Zhao et al. (2016c; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Protoroccella Follmann 2001, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *P. minima* (R. Sant.) Follmann ex Follmann, lichenized, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Protoscypha Syd. 1925, *Protoscyphaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. pulla* Syd., asexual morph unknown, biotrophic, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Protostegia Cooke 1880, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. eucleae* Kalchbr. & Cooke, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Kirk et al. (2013; genus accepted), Crous et al. (2015a; phylogeny, epitypification), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: PREM 60879; CPC 23549.

Protostegiomyces Bat. & A.F. Vital 1955, *Ascomycota* genera *incertae sedis*, one species, type: *P. lembosiae* Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Protostroma Bat. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *P. hyphaenes* Bat., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Protothelenella Räsänen 1943, *Protothelenellaceae*, *Ostropales*, *Lecanoromycetes*, eleven species, type: *P. reducta* (Th. Fr.) Räsänen, lichenized, Asia, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Resl et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Protothyrium G. Arnaud 1917, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, two species,

type: *P. salvadorae* (Cooke) G. Arnaud, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, isotype of type: IMI 158625.

Protounguicularia Raitv. & R. Galán 1986, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. brevicapitata* Raitv. & R. Galán, asexual morph unknown, saprobes, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Protousnea (Motyka) Krog 1976, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, eight species, type: *P. magellanica* (Mont.) Krog, lichenized, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Protoventuria Berl. & Sacc. 1887 (= *Ramalia* Bat. 1957 *fide* Rossman et al. 2016a), *Venturiaceae*, *Venturiales*, *Dothideomycetes*, c. five species, type: *P. rosae* (De Not.) Berl. & Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; morphology, phylogeny), Hyde et al. (2013; accepted as in *Venturiaceae*, phylogeny), Wijayawardene et al. (2014c; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Proxipyricularia Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, two species, type: *P. zingiberis* (Y. Nisik.) Klaubauf, Lebrun & Crous, hyphomycetous, sexual morph unknown, pathogens, terrestrial, Japan, see Klaubauf et al. (2014; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Wijayawardene et al. (2017; outline), available cultures for the type: CBS 133594.

Psammina Sacc. & M. Rousseau ex E. Bommer & M. Rousseau 1891, *Ascomycota* genera *incertae sedis*, eight species, type: *P. bommeriae* Sacc. & M. Rousseau, hyphomycetous, sexual morph unknown, saprobes, lichenicolous, terrestrial, Africa, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: CBS H-17363.

Psathyrophlyctis Brusse 1987, *Phlyctidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *P. serpentaria* Brusse, asexual morph unknown, lichenized, terrestrial, South Africa, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Pselaphidomyces Speg. 1917, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. pselapti* Speg. asexual morph unknown, biotrophic, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudaleuria Lusk 1987, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *P. quinaultiana* Lusk, asexual morph unknown, from soil, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Xu et al. (2012; soil fungi), Kirk et al. (2013; genus accepted), Nouhra et al. (2013; DNA, ectomycorrhizal), sequences are available.

Pseudallescheria Negroni & I. Fisch. 1944, *Microascaceae*, *Microascales*, *Sordariomycetes*, nine species, type: *P. shearii* Negroni & I. Fisch., asexual morph unknown, saprobes, human pathogens, terrestrial, worldwide, see Gilgado et al. (2010; new species, human pathogen), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available but lacking for the type.

Pseudarctomia Gyeln. 1939, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *P. microleuca* (Nyl.) Gyeln., asexual morph unknown, lichenized, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Pseudascozonus Brumm. 1985, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, one species, type: *P. racemosporus* Brumm., asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudephebe M. Choisy 1930, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *P. pubescens* (L.) M. Choisy, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Wang and McCune (2010; China), Thell et al. (2012; phylogeny, accepted as a genus in *Parmeliaceae*), Kirk et al. (2013; genus accepted), Mitrovic et al. (2014; antimicrobial properties), Boluda et al. (2016; cryptic species), sequences are available.

Pseudeurotium J.F.H. Beyma 1937, *Pseudeurotiaceae*, *Leotiomycetes* families *incertae sedis*, six species, type: *P. zonatum* J.F.H. Beyma, asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Minnis and Lindner (2013; new species), cultures and sequences are available.

Pseudevernia Zopf 1903, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, four species, type: *P. furfuracea* (L.) Zopf, lichenized, North America, Europe, see Lumbsch

and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Pseudoacremonium Crous 2014, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. sacchari* Crous, hyphomycetous, sexual morph unknown, Vietnam, see Crous et al. (2014c; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type CBS H-21704, CPC 2315.

Pseudoacrodictys W.A. Baker & Morgan-Jones 2003, *Ascomycota* genera *incertae sedis*, 14 species, type: *P. eickeri* (Morgan-Jones) W.A. Baker & Morgan-Jones, sexual morph unknown, saprobes, terrestrial, see Castañeda-Ruiz et al. (2010a, 2016b; new species), Zhang et al. (2011g; new species), Dubey and Pandey (2012; new species), Fiuza et al. (2014; new species), Ma et al. (2015; new species), two species have sequence data.

Pseudoamauroascus Cano, M. Solé & Guarro 2002, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *P. australiensis* Cano, M. Solé & Guarro, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), sequences are available for the type (unpublished), holotype of type: IMI 370014.

Pseudoanguillospora S.H. Iqbal 1974, *Ascomycota* genera *incertae sedis*, two species, type: *P. stricta* S.H. Iqbal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoannulatascus Z.L. Luo, Maharachch. & K.D. Hyde 2015, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *P. biatriisporus* (K.D. Hyde) Z.L. Luo, Maharachch. & K.D. Hyde, asexual morph unknown, aquatic, Australia, Thailand, see Luo et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: BRIP 21481, cultures and sequences are available.

Pseudoanthostomella Daranag., Camporesi & K.D. Hyde 2016, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. pini-nigrae* Daranag., Camporesi & K.D. Hyde, asexual morph unknown, terrestrial, saprobes, Italy, see Daranagama et al. (2016d; taxonomy), Wendt et al. (2017; placed in *Xylariales*), cultures and sequences are available.

Pseudoaristastoma Suj. Singh 1979, *Ascomycota* genera *incertae sedis*, one species, type: *P. indicum* Suj. Singh, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoascochyta Valenzuela-Lopez, Stchigel, Cano-Canals, Guarro & Cano 2016, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. pratensis* Valenzuela-Lopez, CanoCanals, Stchigel, Guarro & Cano, coelomycetous, sexual morph unknown, saprobes, terrestrial, Spain, see Crous et al. (2016a; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22735, FMR 14524.

Pseudoascotaiwania J. Yang, Bhat & K.D. Hyde 2016 *Fuscosporellaceae*, *Fuscosporellales*, *Sordariomycetes*, one species, type: *P. persoonii* (Fallah, J.L. Crane & Shearer) J. Yang, Bhat & K.D. Hyde, hyphomycetous, Manitoba, see Yang et al. (2016c; taxonomy, phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available.

Pseudoasperisporium U. Braun 2000, *Ascomycota* genera *incertae sedis*, three species, type: *P. tupae* (Speg.) U. Braun, hyphomycetous, terrestrial, plant pathogens, leaf-spotting, Asia, South America, see Seifert (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of type: LPS 959.

Pseudoasteromassaria M. Matsum. & Kaz. Tanaka 2015, *Latoruaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. fagi* M. Matsum. & Kaz. Tanaka, asexual morph coelomycetous (stagonospora-like), saprobes, terrestrial, Japan, see Ariyawansa et al. (2015a; morphology, phylogeny), Tibpromma et al. (2017b; new data), cultures and sequences are available, holotype and ex-type of the type: HHUF 30471; MAFF 245221.

Pseudoastrosphaeriella Phook., Z.L. Luo & K.D. Hyde 2015, *Pseudoastrosphaeriellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. thailandensis* Phook., Z.L. Luo & K.D. Hyde, asexual morph coelomycetous, saprobes, Asia, see Phookamsak et al. (2015b; taxonomy, phylogeny), cultures and sequences are available.

Pseudoaurantiascoma Thambug. & K.D. Hyde 2015, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. kenyense* (Mugambi & Huhndorf) Thambugala & K.D. Hyde, asexual morph unknown, saprobes, cosmopolitan, see Thambugala et al. (2015b; taxonomy), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora* but in here we do not agree with them), cultures and sequences are available.

Pseudobaeomyces M. Satô 1940, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *P. insignis* (Zahlbr.) M. Satô, asexual morph unknown, lichenized, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudobasidiospora Dyko & B. Sutton 1978, *Ascomycota* genera *incertae sedis*, one species, type:

P. caroliniana Dyko & B. Sutton, coelomycetous, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sexual morph unknown, cultures and sequences are unavailable, holotype of type: IMI 208458.

Pseudobeltrania Henn. 1902, *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *P. cedrelae* Henn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2015e; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Rajeshkumar et al. (2016; phylogeny), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available but lacking for the type.

Pseudocalopadia Lücking 1999, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *P. mira* Lücking, lichenized, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type: M.

Pseudocamarosporium Wijayaw. & K.D. Hyde 2014, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, ten species, type: *P. propinquum* (Sacc.) Wijayaw., Camporesi & K.D. Hyde, coelomycetous, sexual morph unknown, has camarosporium-like and coniothyrium-like morphologies, saprobes, Europe, see Wijayawardene et al. (2014c, d, 2016b, c; morphology, phylogeny), Crous et al. (2015c; new species, phylogeny, coniothyrium-like species), Thambugala et al. (2017a, phylogeny, new species), sequence data available, holotype and ex-type strains of type: MFLU 14-0090; MFLUCC 14-0192 = ICMP 20203.

Pseudocanalisporium R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *P. circumfecundum* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudocatenomycopsis Crous & L.A. Shuttlew. 2013, *Coronophorales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. rothmanniae* Crous & L.A. Shuttlew., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Zambia, see Crous et al. (2013b; morphology, phylogeny), Maharachchikumbura et al. (2015b, 2016b; phylogeny, outline), holotype and ex-type of the type: CBS H- 21432; CBS 22733.

Pseudocenangium P. Karst. 1886, *Ascomycota* genera *incertae sedis*, one species, type: *P. pinastri* P. Karst., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudocercospora Speg. 1910, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, c. 1500 accepted species (Mycobank), type: *P. vitis* (Lév.) Speg., hyphomycetous, sexual morph mycosphaerella-like, plant pathogens, endophytes or saprobes, cosmopolitan, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Phengsintham et al. (2013; species in Laos), Crous et al. (2012a: phylogeny), Bakhshi et al. (2014; phylogeny), Shivas et al. (2015; new species), sequences are available, epitype of type: CBS HAL (MBT 102230).

Pseudocercosporella Deighton 1973, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 150 species, type: *P. ipomoeae* Sawada ex Deighton, hyphomycetous, sexual morph mycosphaerella-like, plant pathogens, terrestrial, five species confirmed based on DNA, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Frank et al. (2010; morphology, phylogeny), Rossman et al. (2016b; new combination), epitype and ex-epitype of type: CBS H-20409; CBS 125685.

Pseudocercosporidium Deighton 1973, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. venezuelanum* (Syd.) Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Pseudochapsa Parnmen, Lücking & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 17 species, type: *P. dilatata* (Müll. Arg.) Parnmen, Lücking & Lumbsch, asexual morph unknown, lichenized, terrestrial, tropical, see Parnmen et al. (2012; genus proposed), cultures and sequences are available.

Pseudochuppia Kamal, A.N. Rai & Morgan-Jones 1984, *Ascomycota* genera *incertae sedis*, one species, type: *P. sarcinispora* Kamal, A.N. Rai & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudociboria Kanouse 1944, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. umbrina* Kanouse, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoclathrosphaerina Voglmayr 1997, *Ascomycota* genera *incertae sedis*, one species, type: *P. evamariae* Voglmayr, hyphomycetous, sexual morph unknown, saprobes, from submerged deciduous leaves, USA, New Zealand, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable (unpublished), holotype of the type: WU 17015.

Pseudocoleodictyospora Doilom & K.D. Hyde 2016, *Pseudocoleodictyosporaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *P. tectonae* Doilom, D.J. Bhat & K.D. Hyde, saprobes, terrestrial, see Doilom et al. (2017; phylogeny), cultures and sequences are available, holotype and ex-holotype type strains of type: MFLU 15-3527; MFLUCC 12–0385, MKT 058, ICMP 21160.

Pseudocoleophoma Kaz. Tanaka & K. Hiray. 2015, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. calamagrostidis* Kaz. Tanaka & K. Hiray., asexual morph coelomycetous, saprobes, terrestrial, Japan, see Tanaka et al. (2015; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of the type: HHUF 30450; CBS 139700.

Pseudoconium Petr. 1969, *Ascomycota* genera *incertae sedis*, one species, type: *P. pallescens* (Bäumler) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available (unpublished).

Pseudocosmospora C. Herrera & P. Chaverri 2013, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *P. eutypellae* C. Herrera & P. Chaverri, asexual morph hyphomycetous (acremonium-like to verticillium-like), saprobes, terrestrial, worldwide, see Herrera et al. (2013; taxonomy, phylogeny), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype and ex-type cultures of the type: BPI 884165; CBS 133966 = A.R. 4562.

Pseudocryptoclypeus A. Hashim. & Kaz. Tanaka 2017, *Lophiotremataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. yakushimensis* A. Hashim. & Kaz. Tanaka, asexual morph coelomycetous, saprobes, Asia, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Pseudocryptosporella J. Reid & C. Booth 1969, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. polylepidis* (E. Müll.) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pseudocyphellaria Vain. [nom. cons.] 1890 (= *Crocodia* Link 1833; = *Cyanisticta* Gyeln. 1931; = *Diphaeosticta* Clem. 1909; = *Diphanosticta* Clem. 1909; = *Merostictina* Clem. 1909); = *Parmosticta* Nyl. 1875; = *Parmostictina* Nyl. 1875; = *Phaeosticta* Trevis. 1869; *Phanosticta* Clem. 1909; *Podostictina* Clem. 1909; = *Saccardoa* Trevis. 1869; = *Stictina* Nyl. 1860), *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, 100 species, type: *Ps. curvata* (Ach.) Vain., lichenized, South America, Asia, see Lumbsch and Huhndorf (2010; outline), Quilhot et al. (2010; taxonomy), Miller et al. (2011a, b; taxonomy), Pandit and Sharma (2012; new record), Fritis et al. (2013; biological activity), Kirk et al. (2013; genus accepted), Moncada et al. (2014b; taxonomy, phylogeny), Yoshiaki and Ohmura (2014; transplant experiment), Beese et al. (2015; ecology), Lücking et al. (2017a; classification), Messuti et al. (2016; sequence), sequences are available but lacking for type.

Pseudocytoplacosphaeria Punith. & Spooner 2002, *Ascomycota* genera *incertae sedis*, one species, type: *P. coniicola* Punith. & Spooner, coelomycetous, sexual morph unknown, saprobes, British Isles, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: K(M) 85582.

Pseudocytospora Petr. 1923, *Ascomycota* genera *incertae sedis*, one species, type: *P. allantospora* Petr., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (20122017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudodichomera Höhn. 1918, *Ascomycota* genera *incertae sedis*, three species, type: *P. varia* (Pers.) Höhn., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudodictyosporium Matsush. 1971, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *P. wauense* Matsush., hyphomycetous, sexual morph unknown, saprobes, Asia, South America, see Menkis and Vasaitis (2011; DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Kirschner et al. (2013; new species, Taiwan), Hyde et al. (2016; new species, Thailand), Boonmee et al. (2016a; phylogeny), cultures and sequences are available, type specimen and cultures available for the type: CBS H-5642; KRP88–6 (Menkis and Vasaitis 2011).

Pseudodidymaria U. Braun 1993, *Ascomycota* genera *incertae sedis*, three species, type: *P. wyethiae* (Ellis & Everh.) U. Braun, hyphomycetous, sexual morph unknown,

terrestrial, foliicolous, leaf-spotting, Asia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, lectotype of type: NY 1087025.

Pseudodidymella C.Z. Wei, Y. Harada & Katum. 1997 (= *Pycnopleiospora* C.Z. Wei et al. *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Dothideomycetes* genera *incertae sedis*, one species, type: *P. fagi* C.Z. Wei, Y. Harada & Katum., asexual morph formerly known in *Pycnopleiospora*, saprobes, Japan, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012, 2014c, 2017; outline, nomenclature), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), cultures and sequences are unavailable, holotype of type: HHUF 22903.

Pseudodidymosphaeria Thambug. & K.D. Hyde 2015, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. spartii* Thambug., Camporesi & K.D. Hyde, asexual morph coelomycetous, saprobes, Europe, see Pavlic et al. (2015a; morphology, phylogeny), Li et al. (2016a; new species), Tibpromma et al. (2017b; new data), sequence data available, reference specimen and ex-type of type: MFLU 14–0578; MFLUCC 13–0273.

Pseudodinemasporium A. Hashim. & Kaz. Tanaka 2015, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *P. fabiformis* A. Hashim., G. Sato & Kaz. Tanaka, coelomycetous, sexual morph unknown, saprobes, Japan, Malaysia, see Hashimoto et al. (2015b; morphology, phylogeny), Crous et al. (2015c; phylogeny), holotype and ex-type of the type: HHUF 29716; MAFF 244361.

Pseudodiplococcium Hern.-Restr., J. Mena & Gene 2017, *Xenospadicoidaceae*, *Xenospadicoidales*, *Sordariomycetes*, one species, type: *X. ibericum* Hern.-Restr., J. Mena & Guarro, hyphomycetous, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Pseudodiplodia (P. Karst.) Sacc. 1884, *Ascomycota* genera *incertae sedis*, 45 species, type: *P. ligniaria* (P. Karst.) Sacc., coelomycetous, sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), culture and sequences are available for an unidentified species.

Pseudodiscula Laubert 1911, *Ascomycota* genera *incertae sedis*, two species, type: *P. endogenospora* Laubert, coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudodiscus Arx & E. Müll. 1959, *Saccardiaceae*, *Ascomycota* families *incertae sedis*, one species, type: *P. nootkatensis* (Terrier) Arx & E. Müll., asexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, available specimen of type: CBS H-17396.

Pseudoecteinomyces W. Rossi 1977, *Euceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *P. zuphiicola* (Speg.) W. Rossi, asexual morph unknown, biotrophic, Africa, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoepicoccum M.B. Ellis 1971, *Capnodiales* genera *incertae sedis*, *Dothideomyceyes*, two species, type: *P. cocos* (F. Stevens) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudofuscophialis Sivan. & H.S. Chang 1995, *Ascomycota* genera *incertae sedis*, one species, type: *P. lignicola* Sivan. & H.S. Chang, hyphomycetous, sexual morph unknown, saprobes, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 356633.

Pseudofusicoccum Mohali, Slippers & M.J. Wingf. 2006, *Pseudofusicoccumaceae*, *Botryosphaeriales*, *Dothideomycetes*, seven species, type: *P. stromaticum* (Mohali, Slippers & M.J. Wingf.) Mohali, Slippers & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, endophytes, terrestrial, cosmopolitan, see Pavlic et al. (2008; new species), Phillips et al. (2008, 2013; taxonomy, phylogeny), Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2017; outline), Doilom et al. (2015; species in *Tectona*), Dissanayake et al. (2016b; taxonomy), Yang et al. (2017; phylogeny), holotype and ex-type of the type: PREM 58237, CMW 13366.

Pseudogaster Höhn. 1907, *Ascomycota* genera *incertae sedis*, one species, type: *P. singularis* Höhn., hyphomycetous, sexual morph unknown, saprobes, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudogibellula Samson & H.C. Evans 1973, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one

species, type: *P. formicarum* (Mains) Samson & H.C. Evans, hyphomycetous, sexual morph unknown, on insects, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Pseudogliophragma Phadke & V.G. Rao 1980, *Wiesneriomycetales*, *Tubeufiales*, *Dothideomycetes*, one species, type: *P. indicum* [as India] Phadke & V.G. Rao, hyphomycetous, sexual morph unknown, saprobes, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Pratibha et al. (2015; phylogeny, typification), cultures and sequences are available, ex-type of the type: MTCC 11985.

Pseudographiella E.F. Morris 1966, *Ascomycota* genera *incertae sedis*, one species, type: *P. variiseptata* E.F. Morris., hyphomycetous, sexual morph unknown, saprobes, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudographis Nyl. 1855, *Triblidiaceae*, *Triblidiales*, *Leotiomycetes*, three species, type: *P. elatina* (Ach.) Nyl., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, available specimen of type: CBS H-17399.

Pseudogymnoascus Raillo 1929, *Myxotrichaceae*, *Leotiomycetes* families *incertae sedis*, ten species, type: *P. roseus* Raillo, asexual morph unknown, animal pathogens, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Minnis and Lindner (2013; new species), Hoyt et al. (2015; control disease), cultures and sequences are available.

Pseudohalonectria Minoura & T. Muroi 1978, *Pseudohalonectriaceae*, *Magnaporthales*, *Sordariomycetes*, eleven species, type: *P. lignicola* Minoura & T. Muroi, asexual morph unknown, saprobes, terrestrial, aquatic, worldwide, see Lumbsch and Huhndorf (2010; outline), Hu et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Perera et al. (2016c; new species, phylogeny), type specimen and cultures available for the type: CBS H-19515; SMH2440 IFRDCC 3110.

Pseudohelicomyces Garnica & E. Valenz. 2000, *Ascomycota* genera *incertae sedis*, one species, type: *P. albus* Garnica & E. Valenz., hyphomycetous, sexual morph unknown, saprobes, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: AH 19575.

Pseudohelotium Fuckel 1870, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, c. 50 species, type: *P. pineti* (Batsch) Fuckel, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudohendersonia Crous & M.E. Palm 1999, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. proteae* Crous & M.E. Palm, coelomycetous, sexual morph unknown, saprobes, associated with leaf spots, USA, Italy, see Wijayawardene et al. (2016b; morphology, phylogeny), cultures and sequences are available, holotype of type: BPI 1107849.

Pseudohepatica P.M. Jørg. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *P. pachyderma* P.M. Jørg., asexual morph unknown, lichenized, Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: US, Steyermark 93298.

Pseudoheppia Zahlbr. 1903, *Heppiaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *P. schuleri* Zahlbr., asexual morph unknown, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudohypocrea Yoshim. Doi 1972, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. citrinella* (Ellis) Yoshim. Doi, asexual morph acremonium-like, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pseudoidriella Crous & R.G. Shivas 2011, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. syzygii* Crous & R.G. Shivas, hyphomycetous, sexual morph unknown, saprobe, associated with insect damaged leaves, terrestrial, Australia, see Crous et al. (2011c; morphology, DNA, phylogeny), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type culture of type: CBS H-20758; CBS 131307.

Pseudolachnea Ranoj. 1910, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, five species, type: *P. bubakii* Ranoj., coelomycetous, sexual morph unknown, terrestrial, saprobes, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hashimoto et al. (2015b; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Pseudolachnella Teng. 1936, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, 18 species, type: *P. scolecospora* (Teng & C.I. Chen) Teng, coelomycetous, sexual morph unknown, saprobes, worldwide, see Hashimoto et al. (2015b; morphology, phylogeny), Li et al. (2016a; new species), cultures and sequences are available, holotype of the type: "Ling 138".

Pseudolachnum Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. lateritium* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudolecanactis Zahlbr. 1907, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. filicicola* Zahlbr., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ertz et al. (2015b, c; phylogenetic study), Lücking et al. (2017a; classification), sequences are unavailable.

Pseudolembosia Theiss. 1913, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *P. geographica* (Massee) Theiss., asexual morph unknown, saprobes, terrestrial, Australia, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of type: NY.

Pseudoleptogium Müll.Arg. 1885, *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *P. diffractum* (Kremp.) Müll. Arg., lichenized, see Otálora et al. (2013, 2014; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Pseudolignincola Chatmala & E.B.G. Jones 2006, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *P. siamensis* Chatmala & E.B.G. Jones, asexual morph unknown, on wood, marine, tropical, see Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Pseudolophiostoma Thambug., Kaz. Tanaka & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. vitigenum* (Kaz. Tanaka & Y. Harada) Thambug., Kaz. Tanaka & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Japan, see Thambugala et al. (2015b; morphology, phylogeny), cultures and sequences are available, holotype and ex-type of type: HHUF 26930; MAFF 239459.

Pseudolophiotrema A. Hashim. & Kaz. Tanaka 2017, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. elymicola* A. Hashim. & Kaz. Tanaka, asexual morph unknown, saprobes, Europe, see Hashimoto et al. (2017; taxonomy, phylogeny), sequences are available.

Pseudomassaria Jacz. 1894, *Pseudomassariaceae*, *Amphisphaeriales*, *Sordariomycetes*, c. 20 species, type: *P. chondrospora* (Ces.) Jacz., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Jaklitsch and Voglmayr (2012; phylogeny), Senanayake et al. (2015; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for type: MFLUCC 15-0545.

Pseudomassariosphaeria Phukhams., Ariyaw., Campor. & K.D. Hyde 2015, *Amniculicolaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. bromicola* Phukhams., Ariyaw., Camporesi & K.D. Hyde, asexual morph unknown, saprobes, aquatic and terrestrial, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type culture of type: MFLU 15−1403, MFLUCC 15−0031.

Pseudombrophila Boud. 1885, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, 28 species, type: *P. pedrottii* Boud., asexual morph unknown, coprophilous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Pseudomeliola Speg. 1889, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *P. brasiliensis* Speg., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pseudomeria G.L. Barron 1980, *Ascomycota* genera *incertae sedis*, one species, type: *P. mucosa* G.L. Barron, hyphomycetous, sexual morph unknown, on nematodes, terrestrial, Canada, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Pseudomicrodochium B. Sutton 1975, *Ascomycota* genera *incertae sedis*, nine species, type: *P. aciculare* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Réblová et al. (2013; compare with *Cyphellophora*), cultures and sequences are unavailable, holotype of type: IMI 169711.

Pseudomisturatosphaeria Thambug. & K.D. Hyde 2015, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. cruciformis* (Mugambi & Huhndorf)

Thambugala & K.D. Hyde, asexual morph unknown, saprobes, cosmopolitan, see Thambugala et al. (2015b; taxonomy), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora* but in here we do not agree with them), cultures and sequences are available.

Pseudomitrula Gamundí 1980, *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *P. horakii* Gamundí, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudomonodictys Doilom, Ariyaw., D.J. Bhat & K.D. Hyde 2015, *Macrodiplodiopsidaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. tectonae* Doilom, Ariyaw., D.J. Bhat & K.D. Hyde, saprobes, terrestrial, see Ariyawansa et al. (2015a; phylogeny), Doilom et al. (2017; phylogeny), cultures and sequences are available, holotype and ex-holotype type strains of type: MFLU 15-1413; MFLUCC 12-0552.

Pseudomorfea Punith. 1981, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. coffeae* Punith., asexual morph unknown, saprobes, terrestrial, India, Argentina, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pseudonaevia Dennis & Spooner 1993, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *P. caricina* Dennis & Spooner, asexual morph unknown, saprobes, terrestrial, British Isles, see Raitviir (2008; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: K.

Pseudonectria Seaver 1909, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 10 species, type: *P. buxi* (DC.) Seifert, Gräfenhan & Schroers., hyphomycetous, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures available for type: AFTOL-ID 191, AR2716, CBS 114049, CBS 122566, CBS 114049, AR 2714.

Pseudonectriella Petr. 1959, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. ahmadii* Petr., asexual morph unknown, saprobes, terrestrial, South Africa, see Kirk et al. (2008; treated as a synonym of *Catabotrys* Theiss. & Syd.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; not listed), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Pseudoneottiospora Faurel & Schotter 1965, *Ascomycota* genera *incertae sedis*, two species, type: *P. cunicularia* Faurel & Schotter, coelomycetous, sexual morph unknown, saprobes, Algeria, ltaly, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoneurospora Dania García, Stchigel & Guarro 2004, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, two species, type: *P. amorphoporcata* (Udagawa) Dania García, Stchigel & Guarro, asexual morph unknown, saprobes, from soil, terrestrial, Thailand, Spain, see Lumbsch and Huhndorf (2010; outline), Nygren et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available but lacking for the type.

Pseudoniptera Velen. 1947, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 25 species, type: *P. quercina* Velen., asexual name unknown, saprobes, terrestrial, ?Europe, see Kirk et al. (2008; treated as a synonym of Hymenoscyphus Gray), Lumbsch and Huhndorf (2010; outline, accepted as in *Dermateaceae*), Jaklitsch et al. (2016a; classification, placed in *Helotiaceae*), cultures and sequences are unavailable.

Pseudonitschkia Coppins & S.Y. Kondr. 1995, *Dacampiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. parmotrematis* Coppins & S.Y. Kondr., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes*), Hyde et al. (2013; outline, accepted as a genus in *Dacampiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of the type: BM, Alston 5836.

Pseudopannaria (B.de Lesd.) Zahlbr. 1924, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *P. marcii* (B. de Lesd.) Zahlbr., lichenized, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Pseudoparmelia Lynge 1914, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 15 species, type: *P. cyphellata* Lynge, lichenized, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Buaruang et al. (2015; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Pseudoparodia Theiss. & Syd. 1917, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *P. pseudopeziza* (Pat.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in

Patellariaceae), cultures and sequences are unavailable, holotype of type: FH 7735.

Pseudoparodiella F. Stevens 1927, *Venturiaceae*, *Venturiales*, *Dothideomycetes*, one species, type: *P. vernoniae* F. Stevens, asexual morph unknown, saprobes, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; morphology, phylogeny), Hyde et al. (2013; accepted as in *Venturiaceae*, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pseudopassalora Crous 2011, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. gouriqua* Crous, hyphomycetous, sexual morph unknown, saprobes, South Africa, see Crous et al. (2011d; morphology, phylogeny), Wijayawardene et al. (2014c, 2017; outline), epitype and ex-epitype culture of type: CBS H-20682, CBS 101954.

Pseudopatellina Höhn. 1908, *Ascomycota* genera *incertae sedis*, one species, type: *P. conigena* (Niessl) Höhn., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, type specimen of type: CBS H-17414.

Pseudopaulia M. Schultz 2002, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *P. tessellata* M. Schultz, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type: B (Schultz 14042a).

Pseudopeltis L. Holm & K. Holm 1978, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. filicum* L. Holm & K. Holm, asexual morph unknown, saprobes, terrestrial, Sweden, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudopeltistroma Katum. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *P. kyusyuense* Katum., coelomycetous, sexual morph unknown, saprobes, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudopeltula Henssen 1995, *Gloeoheppiaceae*, *Lichinales*, *Lichinomycetes*, four species, type: *P. myriocarpa* Henssen, lichenized, Mexico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type: COLO.

Pseudopenidiella Crous & Koukol 2012, *Ascomycota* genera *incertae sedis*, one species, type: *P. piceae* Crous & Koukol, hyphomycetous, saprobes, Czech Republic, see Crous et al. (2012e; morphology; phylogeny), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype of the type: CBS H-20964, ex-type strain of the type: CPC 19969.

Pseudoperitheca Elenkin 1922, *Ascomycota* genera *incertae sedis*, one species, type: *P. murmanica* Elenkin, asexual morph unknown, saprobes, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudopestalotiopsis Maharachch., K.D. Hyde & Crous 2014, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, seven species, type: *P. theae* (Sawada) Maharachch., K.D. Hyde & Crous, coelomycetous, sexual morph unknown, saprobes or pathogens on leaves, China, India, Indonesia, Malaysia, Thailand, see Maharachchikumbura et al. (2014b, 2016a, b; morphology, phylogeny), Wijayawardene et al. (2016b; outline, morphology), all species have sequence data, epitype and ex-epitype: MFLU 12-0116, MFLUCC 12-0055.

Pseudopetrakia M.B. Ellis 1971, *Ascomycota* genera *incertae sedis*, two species, type: *P. kambakkamensis* (Subram.) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, Asia, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudopezicula Korf 1986, *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *P. tetraspora* Korf, Pearson & Zhuang, asexual morph *Phialophora*-like, pathogen of *Vitaceae*, Europe and North America, see Kirk et al. (2013; genus accepted), holotype of the type: CUP-061765, cultures and sequences are unavailable.

Pseudopeziza Fuckel 1870, *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *P. trifolii* (Biv.) Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available (unpublished) but lacking for the type.

Pseudophacidium P. Karst. 1885, *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, five species, type: *P. ledi* (Alb. & Schwein.) P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Ascodichaenaceae*), Crous et al. (2014b; phylogeny), cultures and sequences are available for the type: CBS 377.59.

Pseudophaeomoniella Nigro, Antelmi & Crous 2015, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, one species, type: *P. oleae* Nigro, Antelmi & Crous, coelomycetous, sexual morph unknown, on living leaves, pathogens, terrestrial, Italy, see Crous et al. (2015d; morphology, phylogeny), cultures and sequences are

available, holotype and ex-type culture of type: CBS H-22250, FV84 = CBS 139191.

Pseudophaeosphaeria Jayasiri, Camporesi & K.D. Hyde 2016, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. rubi* Jayasiri, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Hyde et al. (2016; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 15-1400, MFLUCC 14-0259.

Pseudophloeospora Crous & R.G. Shivas 2010, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *P. syzygii* Crous & M.J. Wingf., coelomycetous, associated with leaf spots, terrestrial, Australia, see Crous et al. (2010c, 2016b; new species, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H 20493, CPC 17051.

Pseudophloeosporella U. Braun 1993, *Ascomycota* genera *incertae sedis*, one species, type: *P. dioscoreae* (Miyabe & S. Ito) U. Braun, coelomycetous, sexual morph unknown, terrestrial, plant pathogens, leaf-spotting, Asia, see Hong et al. (2010; Korea), Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: Miyabe & Hanzawa 9 (SAPA).

Pseudophragmotrichum W.P. Wu, B. Sutton & Gange 1998, *Ascomycota* genera *incertae sedis*, one species, type: *P. cubense* W.P. Wu, B. Sutton & Gange, coelomycetous, sexual morph unknown, saprobes, Cuba, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 372456.

Pseudopithomyces Ariyaw. & K.D. Hyde 2015, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *P. chartarum* (Berk. & M.A. Curtis) J.F. Li, Ariyaw. & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, from human, cosmopolitan, see Ariyawansa et al. (2015a; taxonomy, phylogeny), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available.

Pseudopithyella Seaver 1928, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *P. minuscula* (Boud. & Torrend) Seaver, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Romero et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: AFTOL-ID 69 (unpublished).

Pseudoplagiostoma Cheew., M.J. Wingf. & Crous 2010, *Pseudoplagiostomataceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *P. eucalypti* Cheew., M.J. Wingf. & Crous, asexual morph coelomycetous, saprobes, terrestrial, tropical, see Cheewangkoon et al. (2010; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype and ex-type cultures of the type: CBS H-20303, CPC 13341=CBS 124807.

Pseudoplatystomum Thambug. & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. scabridisporum* (Abdel-Wahab & E.B.G. Jones) Thambug. & K.D. Hyde, asexual morph unknown, saprobes, on marine driftwood, Australia, see Thambugala et al. (2015b; taxonomy), cultures and sequences are available, holotype of type: IMI 379750.

Pseudoplectania Fuckel 1870, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, ten species, type: *P. nigrella* (Pers.) Fuckel, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Romero et al. (2012; phylogeny), Holec and Kříž (2013; morphology), Carbone (2013; taxonomy), Kirk et al. (2013; genus accepted), Glejdura et al. (2015; new species), cultures available for the type: KL BK-4914, neotype: KL BK-4914.

Pseudopleospora Petr. 1920, *Dothideomycetes* genera *incertae sedis*, three species, type: *P. ruthenica* Petr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pseudopolystigmina Murashk. 1928, *Ascomycota* genera *incertae sedis*, two species, type: *P. spiraeicola* Murashk., coelomycetous, sexual morph unknown, saprobes, Russia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoproboscispora Punith. 1999, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, two species, type: *P. aquatica* (S.W. Wong & K.D. Hyde) Punith., asexual morph unknown, saprobes, aquatic, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype of type: CC63 (HKU(M) 2792).

Pseudopyrenidium Nav.-Ros., Zhurb. & Cl. Roux 2010, *Adelococcaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *P. tartaricola* (Linds.) Nav.-Ros., Zhurb. & Cl. Roux, coelomycetous, sexual morph unknown, lichenicolous, Asia, USA, see Navarro-Rosinés et al. (2010; taxonomy), cultures and sequences are unavailable.

Pseudopyrenula Müll. Arg. 1883, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, 20 species, type: *P. diluta* (Fée) Müll. Arg., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Aptroot and Lücking (2016; monograph), Lücking et al. (2017a; classification), cultures and sequences are available.

Pseudopyricularia Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *P. kyllingae* Klaubauf, Lebrun & Crous, sexual morph unknown, pathogens, terrestrial, worldwide, see Klaubauf et al. (2014; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype and ex-type cultures for the type: CBS H-21840, CBS 133595.

Pseudoramichloridium Cheew. & Crous 2009, *Extremaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *P. henryi* Cheew. & Crous, hyphomycetous, sexual morph unknown, saprobes, pathogens, Australia, see Cheewangkoon et al. (2010; taxonomy, phylogeny), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c, 2017; outline), holotype and ex-type cultures for the type: CBS H-20293, CPC 13121 = CBS 124775.

Pseudosplanchnonema Chethana & K.D. Hyde 2015, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. phorcioides* (I. Miyake) Chethana, Camporesi & K.D. Hyde, asexual morph coelomycetous, saprobes, Italy, see Chethana et al. (2015; taxonomy), holotype: MFLU 14-0929, cultures and sequences are available.

Pseudoramonia Kantvilas & Vězda 2000, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *P. stipitata* (Vězda & Hertel) Kantvilas & Vězda, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; key), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Pseudoramularia Matsush. 1983, *Ascomycota* genera *incertae sedis*, two species, type: *P. ponapensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, Uganda, Pacific islands, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudorbilia Y. Zhang bis, Z.F. Yu, Baral & K.Q. Zhang 2007, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, one species, type: *P. bipolaris* Y. Zhang bis, Z.F. Yu, Baral & K.Q. Zhang, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable, holotype of type: XBL17 (M H.B. 8310).

Pseudorhizina Jacz. 1913, *Discinaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *P. korshinskii* Jacz., asexual morph unknown, saprobes, terrestrial, North America, see Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Pseudorhizopogon Kobayasi 1983, *Ascomycota* genera *incertae sedis*, one species, type: *P. sudae* Kobayasi, coelomycetous, sexual morph unknown, saprobes, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudorhynchia Höhn. 1909, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. polyrrhyncha* (Penz. & Sacc.) Höhn., asexual morph unknown, saprobes, terrestrial, see Kirk et al. (2008; treated as a synonym of *Trichosphaeria* Fuckel), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; not listed), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Pseudorhytisma Juel 1894, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *P. bistortae* (DC.) Juel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, type specimen of type: CBS H-17420.

Pseudorobillarda M. Morelet 1968, *Dothideomycetes* genera *incertae sedis*, twelve species, type: *P. phragmitis* (Cunnell) M. Morelet, coelomycetous, sexual morph unknown, saprobes, marine, terrestrial, worldwide, see Suetrong et al. (2009; phylogeny, morphology), Rungindamai et al. (2012; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Moreno-Pérez et al. (2014; antagonist), Tangthirasunun et al. (2014b; new species, Thailand), Crous et al. (2015a; phylogeny), Jones et al. (2015; outline), available specimen and cultures for the type: CBS 842.84, CBS H-17422.

Pseudosaccharomyces Briosi & Farneti 1906, *Ascomycota* genera *incertae sedis*, 20 species, type: *P. citri* Briosi & Farneti, hyphomycetous, sexual morph unknown, saprobes, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudosagedia (Müll. Arg.) Choisy 1949, *Porinaceae*, *Ostropales*, *Lecanoromycetes*, 80 species, type: *P. cerasi* (Schrad.) M. Choisy, lichenized, see Lücking et al. (2017a; classification), cultures and sequences are available.

Pseudosarcosoma M. Carbone, Agnello & P. Alvarado 2013, *Chorioactidaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *P. latahense* (Paden & Tylutki) M. Carbone, Agnello & P. Alvarado, asexual morph unknown, saprobes, terrestrial, USA, see Carbone et al. (2013; taxonomy), sequences are available of the voucher TUR-A 195801 of the type:, holotype of the type: WTU-F-33051.

Pseudoschismatomma Ertz & Tehler 2014, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. rufescens* (Pers.) Ertz & Tehler, sexual morph with lirelliform ascomata, lichenized, terrestrial, Europe, Macaronesia, North America, Asia, Australia, see Ertz

et al. (2014b; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Pseudoschizothyra Punith. 1980, *Ascomycota* genera *incertae sedis*, one species, type: *P. thaungii* Punith., coelomycetous, sexual morph unknown, saprobes, Myanmar, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudoscopulariopsis Sandoval-Denis, Gené & Guarro 2015, *Microascaceae*, *Microascales*, *Sordariomycetes*, one species, type: *P. schumacheri* (E.C. Hansen) M. Sandoval-Denis, J. Gené & J. Guarro, asexual morph hyphomycetous, saprobes, terrestrial, North America, see Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Pseudoscypha Duby 1861, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, three species, type: *P. abietis* J. Reid & Piroz., asexual unknown, terrestrial, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Pseudoseptoria Speg. 1911, *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, eight species, type: *P. donacicola* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2013; accepted as a genus in *Dothioraceae*, phylogeny), Thambugala et al. (2015c; phylogeny), cultures and sequences are available but lacking for the type.

Pseudosigmoidea K. Ando & N. Nakam. 2000, *Ascomycota* genera *incertae sedis*, one species, type: *P. cranei* K. Ando & N. Nakam., hyphomycetous, sexual morph unknown, saprobes, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Diene et al. (2013; new species), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Pseudospiromastix Guarro, Stchigel & Cano 2014, *Spiromastigaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *P. tentaculata* (Guarro, Gené & De Vroey) Guarro, asexual morph unknown, from soil, terrestrial, Somalia, see Rizzo et al. (2014; morphology; phylogeny), Hirooka et al. (2016; phylogeny), holotype and ex-type strains of type: IMI 351264; RV 24167 = CBS 184.92 = FMR 3842.

Pseudosporidesmium K.D. Hyde & McKenzie 2016, *Xylariomycetidae* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. knawiae* (Crous) K.D. Hyde & McKenzie, hyphomycetous, sexual morph unknown, saprobes, KwaZulu-Natal, see Su et al. (2016b; phylogeny), Wijayawardene et al. (2017; outline), holotype of the type: CBS H-20158 (as *Sporidesmium knawiae* Crous).

Pseudostegia Bubák 1906, *Ascomycota* genera *incertae sedis*, one species, type: *P. nubilosa* Bubák, coelomycetous, sexual morph unknown, saprobes, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudostigmidium Etayo 2008, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *P. nephromiarium* (Linds.) Etayo, asexual morph unknown, lichenicolous, South America, see Etayo and Sancho (2008; morphology, keys), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of the type: E, J.D. Hooker.

Pseudostrickeria Q. Tian, Wanas., Camporesi & K.D. Hyde 2015, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *P. muriformis* Wanas., Q. Tian, Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy, see Tian et al. (2015; taxonomy), cultures and sequences are available for type, holotype and ex-type strains of type: MFLU 15–1407; MFLUCC 13–0764 = KUMCC15-0062.

Pseudosydowia Thambug. & K.D. Hyde 2014, *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, one species, type: *P. eucalypti* (Verwoerd & du Plessis) Thambug. & K.D. Hyde, asexual morphs unknown, saprobes, terrestrial, South Africa, see Thambugala et al. (2015c; phylogeny), cultures and sequences are available, holotype of type: PREM 46423.

Pseudotaeniolina J.L. Crane & Schokn. 1986, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *P. convolvuli* (Esfand.) J.L. Crane & Schokn., hyphomycetous, sexual morph unknown, on litter, rock-inhabiting, cosmopolitan, see Egidi et al. (2014; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Pseudoteratosphaeria Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, six species, type: *P. perpendicularis* (Crous & M.J. Wingf.) Quaedvl. & Crous, asexual morph unknown, foliicolous, pathogens, saprobes, Brazil, Colombia, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), cultures and sequences are available, holotype and ex-type culture of type: CBS H-19691, CBS 118367.

Pseudotetraploa Kaz. Tanaka & K. Hiray. 2009, *Tetraplosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *P. curviappendiculata* (Sat. Hatak., Kaz. Tanaka & Y. Harada) Kaz. Tanaka & K. Hiray., hyphomycetous, saprobes, terrestrial, Indonesia, Japan, see Tanaka et al. (2009; phylogeny), Seifert et al. (2011;

morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, holotype and ex-type of the type: HHUF 28582, JCM 12852.

Pseudothelomma M. Prieto & Wedin 2016, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, two species, type: *P. ocellatum* (Körb.) M. Prieto and Wedin, lichenized, see Prieto and Wedin (2016; genus proposed, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, voucher specimen of type: Tehler 8063 (S).

Pseudothiella Petr. 1928 (= *Pseudothiopsella* Petr. 1928 *fide* Réblová et al. 2016c), *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, six species, type: *P. hirtellae* (Henn.) Petr., asexual morph formerly named in *Pseudothiopsella*, from living leaves, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures and sequences are unavailable.

Pseudothis Theiss. & Syd. 1914, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. machaerii* (Rehm) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pseudothyrium Höhn. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *P. polygonati* (Tassi) Höhn., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudotopeliopsis Parnmen, Lücking & Lumbsch 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *P. laceratula* (Müll. Arg.) Parnmen, Lücking & Lumbsch, asexual morph unknown, lichenized, terrestrial, tropical, see Parnmen et al. (2012; genus proposed, phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available, lectotype of type: Sayer s.n. – G (Australia).

Pseudotorula Subram. 1958, *Ascomycota* genera *incertae sedis*, three species, type: *P. heterospora* Subram., hyphomycetous, sexual morph unknown, saprobes, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudotracylla B. Sutton & Hodges 1976, *Ascomycota* genera *incertae sedis*, three species, type: *P. dentata* B. Sutton & Hodges, coelomycetous, sexual morph unknown, saprobes, Brazil, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudotrichia Kirschst. 1939, *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, eight species, type: *P. stromatophila* Kirschst., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Melanommataceae*), Hyde et al. (2013; accepted as a genus in *Melanommataceae*), Wijayawardene et al. (2014c; outline), Liu et al. (2015a; new species, Thailand), Tian et al. (2015; phylogeny, accepted as a genus in *Pleomassariaceae*), cultures and sequences are available.

Pseudotrichoconis W.A. Baker & Morgan-Jones 2001, *Ascomycota* genera *incertae sedis*, one species, type: *P. echinophila* (C. Massal.) W.A. Baker & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudotripoconidium Z.F. Yu & K.Q. Zhang 2011, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, one species, type: *P. sinense* Z.F. Yu & K.Q. Zhang, saprobes, terrestrial, China, see Yu et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: YMF 1.01843.

Pseudotrochila Höhn. 1917, *Rhytismatales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *P. rhododendri* (Racib.) Höhn., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudotryblidium Rehm 1890, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. neesii* (Flot.) Rehm, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pseudotulostoma O.K. Mill. & T.W. Henkel 2001, *Elaphomycetaceae*, *Eurotiales*, *Eurotiomycetes*, two species, type: *P. volvatum* O.K. Mill. & T.W. Henkel, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Smith et al. (2011; DNA), cultures and sequences are available.

Pseudovalsaria Spooner 1986, *Boliniaceae*, *Boliniales*, *Sordariomycetes*, four species, type: *P. foedans* (P. Karst.) Spooner, asexual morphs unknown, saprobes, terrestrial, Europe, China, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Clypeosphaeriaceae*), Untereiner et al. (2013; accepted as a genus in *Boliniaceae*, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available but lacking for the type.

Pseudovalsella Höhn. 1918, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type:

P. thelebola (Fr.) Höhn., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Pseudoveronaea Crous & Batzer 2012, *Dissoconiaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *P. ellipsoidea* Batzer & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Li et al. (2012a; morphology; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available, holotype and ex-type of the type: CBS H-20927, CBS 132086.

Pseudovirgaria H.D. Shin, U. Braun, Arzanlou & Crous 2007, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *P. hyperparasitica* H.D. Shin, U. Braun, Arzanlou & Crous, asexual morph hyphomycetous, fungicolous, Asia, Europe, see Braun et al. (2011, taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type strains of type: HAL 2054 F; CBS 121739–121741.

Pseudoxylomyces Kaz. Tanaka & K. Hiray. 2015, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *P. elegans* (Goh, W.H. Ho, K.D. Hyde & K.M. Tsui) Kaz. Tanaka & K. Hiray., sexual morph unknown, saprobes, aquatic, worldwide, see Tanaka et al. (2015; morphology, phylogeny), cultures and sequences are available, holotype of the type: HKU (M) 2777.

Pseudoyuconia Lar. N. Vassiljeva 1983, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. thalictri* (G. Winter) Lar. N. Vassiljeva, asexual morph unknown, saprobe, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; accepted as a genus in *Pleosporaceae*), Wijayawardene et al. (2014c; outline), Ariyawansa et al. (2015c; accepted as a genus in *Pleosporaceae*), cultures and sequences are unavailable.

Pseudozythia Höhn. 1902, *Ascomycota* genera *incertae sedis*, one species, type: *P. pusilla* Höhn., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Psilachnum Höhn. 1926, *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, 28 species, type: *P. lateritioalbum* (P. Karst.) Höhn., asexual morph unknown, saprobes, terrestrial, worldwide, see Han et al. (2009, 2014; new species, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Psilocistella Svrček 1977, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, ten species, type: *P. obsoleta* (Velen.) Svrček, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Psiloglonium Höhn. 1918, *Hysteriaceae*, *Hysteriales*, *Dothideomycetes*, c. 15 species, type: *P. lineare* (Fr.) Petr., asexual morph unknown, saprobes, pathogens, terrestrial, cosmopolitan, see Kirk et al. (2008; treated as a synonym of *Glonium* Muhl. ex Fr.), Boehm et al. (2009a, b; overview of genus), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Hysteriaceae*), Wijayawardene et al. (2014c; outline), Li et al. (2016a; new species), Rossman et al. (2016b; new combination, pathogen), sequences are available.

Psilolechia A. Massal. 1860, *Psilolechiaceae*, *Lecanorales*, *Lecanoromycetes*, four species, type: *P. lucida* (Ach.) M. Choisy, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Psiloparmelia Hale 1989, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 13 species, type: *P. distincta* (Nyl.) Hale, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Psilopezia Berk. 1847, *Rhizinaceae*, *Pezizales*, *Pezizomycetes*, five species, type: *P. nummularia* Berk., asexual morph unknown, pathogens, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Pezizales*), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Psilophana Syd. 1939, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. andina* Syd., asexual morph unknown, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Psilosphaeria Cooke 1879, *Ascomycota* genera *incertae sedis*, one species, type: need typification, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Psilothecium Clem. 1903, *Leotiomycetes* genera *incertae sedis*, one species, type: *P. incurvum* Clem., asexual morph unknown, saprobes, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Helotiales*), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Psora Hoffm. [nom. cons.] 1796, *Psoraceae*, *Lecanorales*, *Lecanoromycetes*, 35 species, type: *L. decipiens* (Hedw.) Ach., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Psoroglaena Müll. Arg. 1891, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 17 species, type: *P. cubensis* Müll. Arg., lichenized, see Muggia et al. (2010a; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), McCarthy and Kantvilas (2013a; new species), Yatsyna (2014; new records), Himelbrant et al. (2015; new records), Käffer et al. (2015; new records), Kubiak et al. (2016; biodiversity), Lücking et al. (2017a; classification), Weerakoon and Aptroot (2016; new records), cultures and sequences are available.

Psoroma Michaux 1803, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, 70 species, type: *P. hypnorum* (Vahl) Gray, lichenized, worldwide, see Ekman et al. (2014; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Psoromaria Nyl. ex Nyl., *Pannariaceae*, *Peltigerales*, *Lecanoromycetes* (= *Degeliella* P.M.Jørg. [nom. illeg.]), two species, type: *P. subdescendens* (Nyl.) Nyl., see Jørgensen and Andersen (2015: nomenclature), Lücking et al. (2017b: classification).

Psoromella Gyeln. 1940, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, one species, type: *P. pampana* Gyeln., lichenized, see Lumbsch and Huhndorf (2010; outline), Thell et al. (2012; overview), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Psoromidium Stirt. 1877, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *P. wellingtonii* Stirt., lichenized, southern hemisphere, see Lumbsch and Huhndorf (2010; outline), Rubio et al. (2013; taxonomy), Jørgensen and Andersen (2015; genus re-evaluation, sequence), Lücking et al. (2017a; classification), cultures and sequences are available.

Psoronactis Ertz & Tehler 2015, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *P. dilleniana* (Ach.) Ertz & Tehler, sexual morph with apothecioid ascomata, asexual morph coelomycetous, lichenized, terrestrial, Euro-Siberian, see Ertz et al. (2015b, c; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Psorophorus Elvebakk & S.G. Hong 2010, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *P. pholidotus* Elvebakk & S.G. Hong, asexual morph unknown, lichenized, terrestrial, South America, see Elvebakk et al (2010; new genus, sequence), sequences are available.

Psorotheciopsis Rehm 1900, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, seven species, type: *P. decipiens* Rehm, lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Psorotichia A. Massal. 1855, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 50 species, type: *P. murorum* A. Massal., lichenized, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Psorula Gotth. Schneid. 1980, *Psoraceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *P. rufonigra* (Tuck.) Gotth. Schneid., lichenized, North America, Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Pteridiosperma J.C. Krug & Jeng 1979, *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *P. foveolatum* (Udagawa & Y. Horie) J.C. Krug & Jeng, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pteridiospora Penz. & Sacc. 1897, *Astrosphaeriellaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *P. javanica* Penz. & Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as *Dothideomycetes*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014b, 2015b; phylogeny, epitypifying), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*), available cultures for the type: MFLUCC 11-0195.

Pteromyces E. Bommer, M. Rousseau & Sacc. 1906, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *P. ambiguus* E. Bommer, M. Rousseau & Sacc. ex Sacc., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pteromycula P.F. Cannon 1997, *Ascomycota* genera *incertae sedis*, one species, type: *P. clypeiformis* P.F. Cannon, asexual morph unknown, saprobes, terrestrial, Great Britain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: IMI 362154a.

Pterosporidium W.H. Ho & K.D. Hyde 1996, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *P. rhizophorae* (Vizioli) W.H. Ho & K.D. Hyde, from living leaves, worldwide, see Lumbsch and

Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pterulopsis Wakef. & Hansf. 1943, *Ascomycota* genera *incertae sedis*, one species, type: *P. dummeri* Wakef. & Hansf., hyphomycetous, sexual morph unknown, saprobes, Uganda, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pterygiopsis Vain. 1890, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 17 species, type: *P. atra* Vain., lichenized, North America, South America, Europe, Australia, Africa, see Eichler et al. (2010; list), Schultz and Moon (2011; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Pterygosporopsis P.M. Kirk 1983, *Ascomycota* genera *incertae sedis*, two species, type: *P. fragilis* P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ptychographa Nyl. 1874, *Xylographaceae*, *Trapeliales*, *Lecanoromycetes*, one species, type: *P. xylographoides* Nyl., lichenized, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Spribille et al. (2014a; sequence), Resl et al. (2015; sequence, partial sequence), Lücking et al. (2017a; classification), cultures and sequences are available.

Pubigera Baral, Gminder & Svrček 2014 (= *Pubigera* Baral, Gminder & Svrček 1995; Nom. inval., Art. 40.6 (Melbourne) fide Species Fungorum 2017), *Helotiales* genera incertae sedis, *Leotiomycetes*, one species, type: *P. subvillosula* (Rehm) Baral, Gminder & Svrček, sexual morph unknown, saprobes, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Pucciniospora Speg. 1886, *Ascomycota* genera *incertae sedis*, one species, type: *P. chusqueae* Speg., coelomycetous, sexual morph unknown, saprobes, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pulchromyces Hennebert 1973, *Ascomycota* genera *incertae sedis*, one species, type: *P. fimicola* (V. Dring) Hennebert, coelomycetous, sexual morph unknown, coprophilous, Ghana, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available, cultures available for the type: ATCC 18595 (unpublished).

Pulmosphaeria Joanne E. Taylor, K.D. Hyde & E.B.G. Jones 1996, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. archontophoenicis* Joanne E. Taylor, K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Daranagama et al. (2016d; accepted in *Xylariales*), cultures and sequences are unavailable.

Pulvinaria Bonord. 1851, *Sordariomycetes* genera *incertae sedis*, one species, type: *P. bohemica* Velen., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pulvinella A.W. Ramaley 2001, *Ascomycota* genera *incertae sedis*, one species, type: *P. nolinae* A.W. Ramaley, hyphomycetous, sexual morph unknown, coprophilous, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: UC 1512945.

Pulvinodecton Henssen & G. Thor 1998, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *P. kurzii* (Kremp.) Henssen & G. Thor, lichenized, Seychelles, Asia, Australia, see Jaklitsch et al. (2016a; phylogeny), Lücking et al. (2017a; classification), sequences are unavailable.

Pulvinula Boud. 1885, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, 28 species, type: *P. convexella* (P. Karst.) Pfister, asexual morph unknown, coprophilous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), sequences are available, voucher specimen of the type: KH.03.19 (FH).

Pumilus Viala & Marsais 1934, *Sordariomycetes* genera *incertae sedis*, one species, type: *P. medullae* Viala & Marsais, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Punctelia Krog 1982, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 45 species, type: *P. borreri* (Sm.) Krog, lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Punctillina Toro 1934, *Ascomycota* genera *incertae sedis*, one species, type: *P. solteroi* Toro, coelomycetous, sexual morph unknown, saprobes, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Punctillum Petr. & Syd. 1924, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. hepaticarum* (Cooke) Petr. & Syd., asexual morph unknown, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Punctonora Aptroot 1997, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *P. nigropulvinata* Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: B, Aptroot 33356.

Pureke P.R. Johnst. 1991, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, seven species, type: *P. zelandicum* P.R. Johnst., asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type, holotype of type: PDD 45591.

Purpureocillium Luangsa-ard, Hywel-Jones, Houbraken & Samson 2011, *Ophiocordycipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *P. lilacinum* (Thom) Luangsa-ard, Houbraken, Hywel-Jones & Samson, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Luangsa-ard et al. (2011; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Spatafora et al. (2015; new combinations), Hyde et al. (2016; new species), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Pustulipora P.F. Cannon 1982, *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *P. corticola* P.F. Cannon, asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Pustulomyces D.Q. Dai, D.J. Bhat & K.D. Hyde 2014, *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *P. bambusicola* D.Q. Dai, D.J. Bhat & K.D. Hyde, asexual morph coelomycetous, sexual morph unknown, saprobes on dead bamboo culms, terrestrial, only know in Thailand, see Dai et al. (2014d; phylogeny, morphology), Wijayawardene et al. (2016b; morphology, phylogeny), sequence data available, holotype and ex-type strain of type: MFLU 13–0369; MFLUCC 11–0436.

Puttea S. Stenroos & Huhtinen 2009, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, three species, type: *P. margaritella* (Hulting) S. Stenroos & Huhtinen, lichenized, Eastern Europe, America, Russia, see Stenroos et al. (2009, 2010; taxonomy, DNA), Lumbsch and Huhndorf (2010; outline), Davydov and Printzen (2012; taxonomy), Czarnota and Hernik (2013; taxonomy, new report), Dillman et al. (2014; new combination), Lücking et al. (2017a; classification), cultures and sequences are available.

Puttemansia Henn. 1902, *Paranectriellaceae*, *Dothideomycetes* families *incertae sedis*, 19 species, type: *P. lanosa* Henn., asexual morph hyphomycetous, parasitic on *Nectandra*, worldwide, see Hyde et al. (2013; accepted as a genus in *Paranectriellaceae*), Wijayawardene et al. (2014c; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnidioarxiella Punith. & N.D. Sharma 1980, *Ascomycota* genera *incertae sedis*, one species, type: *P. indica* Punith. & N.D. Sharma, coelomycetous, sexual morph unknown, saprobes, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnidiopeltis Bat. & C.A.A. Costa 1959, *Ascomycota* genera *incertae sedis*, one species, type: *P. smilacina* Bat. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, USA, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnis Bref. 1881, *Ascomycota* genera *incertae sedis*, one species, type: *P. sclerotivora* Bref., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnocarpon Theiss. 1913, *Dothideomycetes* genera *incertae sedis*, two species, type: *P. magnificum* (Syd., P. Syd. & E.J. Butler) Theiss., asexual morph unknown, saprobes, terrestrial, India, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pycnodactylus Bat., A.A. Silva & Cavalc. 1967, *Ascomycota* genera *incertae sedis*, one species, type: *P. maranhensis* Bat., A.A. Silva & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnodallia Kohlm. & Volkm.-Kohlm. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *P. dupla* Kohlm. & Volkm.-Kohlm., coelomycetous, sexual morph unknown, saprobes, marine, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; marine genera), cultures and sequences are unavailable, holotype of type: IMS Kohlmeyer & Volkmann-Kohlmeyer 5650.

Pycnoderma Syd. & P. Syd. 1914, *Cookellaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. bambusinum* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Cookellaceae*), Hongsanan et al. (2014a; accepted as a genus in *Cookellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pycnoharknessia Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *P. pakistanica* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, Pakistan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: Matsushima Fungus Collection, Kobe, IPX295.

Pycnomma Syd. 1924, *Ascomycota* genera *incertae sedis*, one species, type: *P. canariense* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Canary Islands, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnomoreletia Rulamort 1990, *Ascomycota* genera *incertae sedis*, two species, type: *P. aristata* (J. Ahmad) Rulamort, coelomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Pakistan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnopeziza W.L. White & Whetzel 1938 (= *Acarosporium* Bubák & Vleugel ex Bubák 1911; = *Chaetalysis* Peyronel 1922; = *Ciliosira* Syd. 1942 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *P. sympodialis* W.L. White & Whetzel, asexual morphs formerly known in *Acarosporium*, *Chaetalysis*, *Ciliosira*, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Pycnopsammina Diederich & Etayo 1995, *Ascomycota* genera *incertae sedis*, one species, type: *P. lobariae* Diederich & Etayo, coelomycetous, sexual morph unknown, lichenicolous, non-lichenized, terrestrial, France, Spain, UK, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, holotype of the type: LG (Diederich 9697).

Pycnora Hafellner 2001, *Pycnoraceae*, *Candelariales*, *Lecanoromycetes*, three species, type: *P. xanthococca* (Sommerf.) Hafellner, lichenized, Europe, Asia, North America, see Bendiksby and Timdal (2013; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Pycnoseynesia Kuntze 1898, *Ascomycota* genera *incertae sedis*, one species, type: *P. caronae* (Pass.) Kuntze, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnothelia Duf. 1821, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *P. papillaria* (Ehrh.) L.M. Dufour, lichenized, see Coste and Dufrêne (2009; checklist), Crisan and Ardelean (2010; ecology), Ketner-Oostra et al. (2010; outline), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; sequence), Zarabska and Rosadzinski (2011; new records), Grochowski (2012; ecology), Kirk et al. (2013; genus accepted), McCune and Rosentreter (2014; new record), Miądlikowska et al. (2014a; sequence), Lücking et al. (2017a; classification), Şenkardeşler et al (2016; taxonomy), cultures and sequences are available.

Pycnothera N.D. Sharma & G.P. Agarwal 1974, *Ascomycota genera incertae sedis*, two species, type: *P. cordiae* G.P. Agarwal & N.D. Sharma, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnothyriella Bat. 1952, *Ascomycota* genera *incertae sedis*, two species, type: *P. discreta* Bat., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnothyrium Died. 1913, *Ascomycota* genera *incertae sedis*, six species, type: *P. litigiosum* (Desm.) Died., Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pycnotrema Rivas Plata & Lücking 2012, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *P. pycnoporellum* (Nyl.) Rivas Plata & Lücking, lichenized, terrestrial, tropical, see Rivas Plata et al. (2012a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Pyramidospora Sv. Nilsson., 1962, *Ascomycota* genera *incertae sedis*, seven species, type: *P. casuarinae* Sv. Nilsson, hyphomycetous, sexual morph unknown, on submerged decaying branches of *Casuarina*, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pyrenidium Nyl. 1865, *Dacampiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *P. actinellum* Nyl., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline,

accepted as a genus in *Dacampiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pyrenobotrys Theiss. & Syd. 1914, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. conferta* (Fr.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, America, Scandinavia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Zhang et al. (2011d; did not accept as a genus in *Venturiaceae*), Hyde et al. (2013; not accepted as a genus in *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pyrenocarpon Trevis. 1855, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *P. flotowianum* (Hepp) Trevis., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Medeiros et al. (2014; ecology and new record), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Pyrenochaeta De Not. 1849, *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *P. nobilis* De Not., coelomycetous, saprobes, plant endophytes, terrestrial, aquatic, worldwide, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), de Gruyter et al. (2010, 2013; phylogeny), Doilom et al. (2013; phylogeny), cultures and sequences are available, holotype and ex-type strains of type: CBS H-500; CBS 407.76.

Pyrenochaetopsis Gruyter, Aveskamp & Verkley 2010, *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *P. leptospora* (Sacc. & Briard) Gruyter, Aveskamp & Verkley, coelomycetous, saprobes, plant endophytes, terrestrial, aquatic, worldwide, see de Gruyter et al. (2010, 2012; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline) Kirk et al. (2013; genus accepted), Doilom et al. (2013; phylogeny), Papizadeh et al. (2017; phylogeny), cultures and sequences are available, holotype and ex-type strains of type: CBS H-20313; CBS 101635= PD 71/1027.

Pyrenochium Link 1833, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. pini* Link, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pyrenocollema Reinke 1895, *Ascomycota* genera *incertae sedis*, 19 species, type: *P. tremelloides* Reinke, lichenized, marine, terrestrial, near sea shores, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Pérez-Ortega et al. (2016; phylogeny), cultures and sequences are available, holotype of type: H9505110.

Pyrenocyclus Petr. 1955, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. ambiguus* Petr., asexual morph unknown, saprobes, terrestrial, Hawaii, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pyrenodesmia A. Massal. 1853, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, six species, type: *P. chalybaea* (Fr.) A. Massal., lichenized, Europe, North America, China, see Arup et al. (2013; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Pyrenographa Aptroot 1991, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, three species, type: *P. xylographoides* Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of the type: CBG, Streimann 37582.

Pyrenomyxa Morgan 1895 (= *Pulveria* Malloch & Rogerson 1977 *fide* Wendt et al. 2017), *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, eight species, type: *P. globosa* Lév., asexual morph unknown, terrestrial, saprobes, mainly coprophilous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available.

Pyrenomyxa Morgan 1895, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *P. invocans* Morgan, asexual morph unknown, saprobes, North America, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Pyrenopeziza Fuckel 1870 (= *Cylindrosporium* Grev. 1822 *fide* Johnston et al. 2014b), *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *P. chailletii* (Pers.) Fuckel, asexual morph formerly named in *Cylindrosporium*, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Carter et al. (2013; DNA, pathogens), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are available but lacking for the type.

Pyrenophora Fr. 1849, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, 16 species, type: *P. phaeocomes* (Rebent.) Fr., asexual morph hyphomycetous, saprobes or pathogens (phytopathogens) in terrestrial habitats, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012e; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Pleosporaceae*), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2014c, 2015c;

taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Pyrenopolyporus Lloyd 1917, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, five species, type: *P. hunteri* Lloyd, asexual morph hyphomycetous, terrestrial, saprobes, worldwide, see Wendt et al. (2017; resurrected the genus, placed in *Hypoxylaceae*), cultures and sequences are available.

Pyrenopsis Nyl. [nom. cons.] 1858, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 40 species, type: *P. fuscatula* Nyl., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are available.

Pyrenostigme Syd. 1926, *Dothideomycetes* genera *incertae sedis*, one species, type: *P. siparunae* Syd., asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Pyrenothrix Riddle 1917, *Pyrenotrichaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *P. nigra* Riddle, lichenized, asexual morph unknown, saprobes, terrestrial, North America, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available.

Pyrenowilmsia R.C. Harris & Aptroot 1991, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, one species, type: *P. ferruginosa* (Müll. Arg.) R.C. Harris & Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pyrenula Ach. 1814, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, 175 species, type: *P. nitida* (Weig.) Ach., asexual morph unknown, lichenized, terrestrial, mostly tropical, see Lumbsch and Huhndorf (2010; outline), Aptroot (2012; key), Weerakoon et al. (2012a; phylogeny), Aptroot et al. (2013c; new species), Kirk et al. (2013; genus accepted), Gueidan et al. (2016; phylogeny), Lücking et al. (2017a; classification), sequences are available for the voucher F 5929 of the type.

Pyrenyllium Clem. 1909, *Ascomycota* genera *incertae sedis*, two species, type: *P. analeptum* (Ach.) Clem., coelomycetous, sexual morph unknown, lichenized, terrestrial, distribution unknown, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pyrgidium Nyl. 1867, *Sphinctrinaceae*, *Mycocaliciales*, *Eurotiomycetes*, twelve species, type: *P. bengaliense* Nyl., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pyrgillus Nyl. 1857, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, four species, type: *P. americanus* Nyl., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Weerakoon et al. (2012a; phylogeny), Gueidan et al. (2016; phylogeny), Lücking et al. (2017a; classification), cultures and sequences are available but lacking for the type.

Pyrgostroma Petr. 1951, *Ascomycota* genera *incertae sedis*, two species, type: *P. shearii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pyricularia (Sacc.) Sacc. 1886, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, 83 species, type: *P. grisea* (Sacc.) Sacc., sexual morph unknown, plant pathogens, saprobes, terrestrial, worldwide, see Consolo et al. (2008; pathotype diversity in Argentina), Hayashi and Fukuta (2009; Blast differentiation), Park and Shin (2009; new species), McKenzie et al. (2010; new species), Suzuki et al. (2010; fungicide resistance), Zhang et al. (2010a; spot disease in banana), Kohli et al. (2011; pathology), Netam et al. (2011; plant extract for controlling rice blast), Debona et al. (2012; pathological biochemistry), Yang et al. (2012; early detection of rice blast), Alexandrova et al. (2013; new species), Crous et al. (2013b, 2015a, 2016a; new species), Choi et al. (2013a; relationship of pathogenicity and phylogeny), Sousa et al. (2013; phytopathology), Klaubauf et al. (2014; phylogeny, new species), Murata et al. (2014; phylogeny), Castroagudín et al. (2016; new species), sequence data available for most of the species, including type, epitype and ex-epitype of the type: CBS H-22280, CBS 138707.

Pyriculariopsis M.B. Ellis 1971, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, six species, type: *P. parasitica* (Sacc. & Berl.) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Thongkantha et al. (2009; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Silva et al. (2015b; new species, Brazil), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Pyriformiascoma Daranag., Camporesi & K.D. Hyde 2015, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *P. trilobatum* Daranag., Camporesi & K.D. Hyde, asexual morph hyphomycetous, saprobes, terrestrial, Italy, Europe, see Daranagama et al. (2015a; morphology, phylogeny), Maharachchikumbura et al.

(2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are available, holotype and ex-type strains of type: MFLU 14-0231; MFLUCC 14-0012.

Pyrigemmula D. Magyar & Shoemaker 2011, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *P. aurantiaca* D. Magyar & R. Shoemaker, hyphomycetous, sexual morph unknown, terrestrial, saprobes, worldwide, see Magyar et al. (2011; taxonomy), Crous et al. (2012g; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available, holotype and ex-type cultures of the type: BP 101176, CBS 126743.

Pyripnomyces Cavalc. 1972, *Ascomycota* genera *incertae sedis*, one species, type: *P. maranhensis* Cavalc., coelomycetous, sexual morph unknown, lichenized, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Pyronema Carus 1834, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, two species, type: *P. marianum* Carus, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Traeger et al. (2013; evolution), sequences are available but lacking for the type.

Pyropyxis Egger 1984, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *P. rubra* (Peck) Egger, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), sequences are available for the voucher K. Egger 323 (DAOM) of the type.

Pyrrhospora Körb. 1855, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *P. quernea* (Dicks.) Körb., lichenized, see Rotter (2010; checklist), Lumbsch and Huhndorf (2010; outline), Perlmutter et al. (2012; checklist), Kirk et al. (2013; genus accepted), Singh et al. (2015; sequence), Urbanavichus and Urbanavichene (2015; checklist), Gasparyan and Sipman (2016; new records), Lücking et al. (2017a; classification), cultures and sequences are available.

Pyxidiophora Bref. & Tavel 1891, *Pyxidiophoraceae*, *Pyxidiophorales*, *Laboulbeniomycetes*, 17 species, type: *P. nyctalidis* Bref. & Tavel, asexual morph hyphomycetous, mainly coprophilous, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Pyxine Fr. 1825, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 75 species, type: *P. sorediata* (Ach.) Mont., lichenized, see Rout et al. (2010; ecology), Jungbluth and Marcelli (2011; taxonomy), Jungbluth et al. (2011; new species and new records), Lumbsch and Huhndorf (2010; list), Bajpai and Upreti (2012; ecology), Gaya et al. (2012; sequence), Mongkolsuk et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Nayaka et al. (2013; new species), Prieto et al. (2013; taxonomy, phylogeny), Shukla et al. (2013; bioaccumulation), Karakoti et al. (2014; ecology), Aptroot et al. (2014e; key, taxonomy), Pandit (2014; ecology), Bajpai et al. (2015; genotoxicity), Aptroot (2016; new records), Prieto and Wedin (2016; taxonomy), Lücking et al. (2017a; classification), cultures and sequences are available.

Quadracaea Lunghini, Pinzari & Zucconi 1996, *Ascomycota* genera *incertae sedis*, three species, type: *Q. mediterranea* Lunghini, Pinzari & Zucconi, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, see Seifert et al. (2011; morphology), Zhang et al. (2012g; new species), Wijayawardene et al. (2012, 2017; outline), Barbosa et al. (2013a, b; new species), Kirk et al. (2013; genus accepted), holotype: IMI 367816, cultures and sequences are unavailable.

Quadricladium Nawawi & Kuthub. 1989, *Ascomycota* genera *incertae sedis*, one species, type: *Q. aquaticum* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, aquatic, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 327415, cultures and sequences are unavailable.

Quadricrura Kaz. Tanaka, K. Hiray. & Sat. Hatak. 2009, *Tetraplosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *Q. septentrionalis* Kaz. Tanaka, K. Hirayama & Sat. Hatak., sexual morph unknown, saprobes, terrestrial, Japan, see Tanaka et al. (2009; morphology, phylogeny), Hyde et al. (2013; accepted as a genus in *Tetraplosphaeriaceae*), Wijayawardene et al. (2014c; outline), holotype and ex-type of the type: HHUF 28782, CBS 125430, cultures and sequences are available.

Quasiconcha M.E. Barr & M. Blackw. 1981, *Mytilinidiaceae*, *Mytilinidiales*, *Dothideomycetes*, one species, type: *Q. reticulata* M.E. Barr & M. Blackw., asexual morph hyphomycetous, mainly coprophilous, terrestrial, USA, see Boehm et al. (2009a, b; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mytilinidiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Quasidiscus B. Sutton 1991, *Ascomycota* genera *incertae sedis*, one species, type: *Q. simmondsii* B. Sutton, coelomycetous, sexual morph unknown, saprobes, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 263349c, cultures and sequences are unavailable.

Quasiphloeospora B. Sutton, Crous & Shamoun 1996, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *Q. saximontanensis* (Deighton) B. Sutton, Crous & Shamoun, sexual morph unknown, one species, foliicolous, pathogens, North America, see Seifert et al. (2011; morphology), Braun et al. (2013; Cercosporoid fungi), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c, 2017; outline), holotype of type: IMI 98069, cultures and sequences are unavailable.

Quaternaria Tul. & C. Tul. 1863, *Diatrypaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *Q. persoonii* Tul. & C. Tul., asexual morph unknown, saprobes, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Queenslandia Bat. & H. Maia 1959, *Ascomycota* genera *incertae sedis*, five species, two varieties, type: *Q. pulchella* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Queenslandipenidiella Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *Q. kurandae* (Crous & J.K. Stone) Quaedvl. & Crous, hyphomycetous, sexual morph unknown, pathogens, saprobes, Australia, see Quaedvlieg et al. (2014; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type culture of type: CBS H-19932, CPC 13333.

Queirozia Viégas & Cardoso 1944, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, one species, type: *Q. turbinata* Viégas & Cardoso, sexual and hyphomycetous asexual morph, biotrophic, obligate plant pathogens, terrestrial, South America, see Braun and Cook 2012 (taxonomy), Kirk et al. (2013; genus accepted), holotype of the type: IACM 26560, sequences are available.

Quezelia Faurel & Schotter 1965, *Ascomycota* genera *incertae sedis*, one species, type: *Q. hoggariana* Faurel & Schotter, coelomycetous, sexual morph unknown, coprophilous, Sahara, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Quintaria Kohlm. & Volkm.-Kohlm. 1991, *Dothideomycetes* genera *incertae sedis*, four species, type: *Q. lignatilis* (Kohlm.) Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, freshwater or marine, worldwide, see Schoch et al. (2009; phylogeny), Suetrong et al. (2009; placement in *Testudinaceae*), Hirayama et al. (2010), Wijayawardene et al. (2014c; accepted as a genus in *Dothideomycetes*), cultures and sequences are available, holotype of type: J.K.4365a = 01097442, NYBG.

Rachicladosporium Crous, U. Braun & C.F. Hill 2007, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, twelve species, type: *R. luculiae* Crous, U. Braun & C.F. Hill, asexual morphs hyphomycetous, terrestrial, Antarctica, Europe, New Zealand, North America, see Crous et al. (2009d; phylogeny), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2014c, 2017; outline) Egidi et al. (2014; rock-inhabiting species), Selbmann et al. (2015; distributional records of Antarctic fungi), cultures and sequences are available, holotype and ex-type strains of the type: CBS H-19891; CBS 121620 = CPC 11407.

Rachidicola K.D. Hyde & J. Fröhl. 1995, *Hyponectriaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *R. palmae* K.D. Hyde & J. Fröhl., asexual morph unknown, saprobes, terrestrial, Hong Kong, see Lumbsch and Huhndorf (2010; outline, misspelled as *Rhachidicola*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, misspelled as *Rhachidicola*), holotype of the type: BRIP 22762, cultures and sequences are unavailable.

Raciborskiomyces Siemaszko 1925, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, c. four species, type: *R. polonicus* Siemaszko, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Racodium Fr. [nom. cons.] 1829, *Racodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *R. rupestre* Pers., lichenized, see Muggia et al. (2008; phylogeny), Nelsen et al. (2009; phylogeny), Hawksworth et al. (2011b; typification), Lücking et al. (2017a; classification); sequences are available, holotype of type: UPS:BOT:L-024182.

Racoleus R. Sant. & D. Hawksw. 2011, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *R. trichoporus* R. Sant. & D. Hawksw., filamentous lichen, tropical, Africa, Asia, and South America, sexual morph unknown, see Hawksworth et al. (2011b; morphology, taxonomy), Jaklitsch et al. (2016a; position), Lücking et al. (2017a; classification), cultures and sequences are unavailable, holotype of type: UPS:BOT:L-638266.

Radiatispora Matsush. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *R. yunnanensis*

Matsush., coelomycetous, sexual morph unknown, coprophilous, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: MFC-0Y237.

Radotinea Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *R. caudata* Velen., asexual morph unknown, saprobes, former Czechoslovakia, see Kirk et al. (2008; mentioned as *Helotiales*, genera *incertae sedis*), Lumbsch and Huhndorf (2010; did not accept as genus in *Helotiales*), Kirk et al. (2013; genus accepted), data inadequate, cultures and sequences are unavailable.

Radulidium Arzanlou, W. Gams & Crous 2007, *Dothideomycetes* genera *incertae sedis*, three species, type: *R. subulatum* (de Hoog) Arzanlou, W. Gams & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Czech Republic, USA, see Wu et al. (2013c; new species, morphology), Wijayawardene et al. (2017; outline), ex-type culture of type: CBS 405.76.

Raesaenenia D. Hawksw. C. Boluda & H. Lindgren 2015, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *R. huuskonenii* (Räsänen) D. Hawksw. C. Boluda & H. Lindgren, asexual morph unknown, on lichens, Europe, terrestrial, see Divakar et al. (2015; phylogeny), cultures and sequences are unavailable, isotype of type: K(M)-IMI 209424.

Raesaeneniana S.Y. Kondr., Kärnefelt, A. Thell, Elix & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *R. maulensis* (S.Y. Kondr. & J.-S. Hur) S.Y. Kondr., Elix, Kärnefelt & A. Thell, lichenized, see Kondratyuk et al. (2015c; classification), Lücking et al. (2017a; classification), sequences are available.

Raffaelea Arx & Hennebert 1965, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, 31 species, type: *R. ambrosiae* Arx & Hennebert, sexual morph unknown, symbionts of Ambrosia beetle, plant pathogen, terrestrial, worldwide, see Harrington et al. (2008, new species), Mayfield et al. (2008; laurel wilt on avocado), Kim et al. (2009a, c; effect of Silver nanoparticles, new species), Kolarík and Hulcr (2009; *Scolytodes unipunctatus* mycobiota), Smith et al. (2009; laurel wilt on Camphor), Harrington et al. (2010, 2011; phylogeny, new species, origin of *Raffaelea lauricola*), Matsuda et al. (2010; phylogeny), Seo et al. (2012; phylogeny), Dreaden et al. (2014a, b; multilocus PCR assays, phylogeny), Jeyaprakash et al. (2014; molecular diagnostics), Musvuugwa et al. (2015; sexual state), Simmons et al. (2016; new species), cultures and sequences are available, holotype and ex type of the type: CBS H-7710, CBS 185.64.

Raizadenia S.L. Srivast. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *R. garhwalensis* S.L. Srivast., hyphomycetous, sexual morph unknown, saprobes, India, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Chomnunti et al. (2014; morphology), cultures and sequences are unavailable.

Ramakrishnanella Kamat & Ullasa ex Ullasa 1970, *Ascomycota* genera *incertae sedis*, one species, type: *R. indica* Ullasa, coelomycetous, sexual morph unknown, saprobes, India, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ramalea Nyl. 1866, *Lecanorales* genera *incertae sedis*, *Lecanoromycetes*, four species; type: *R. tribulosa* Nyl.; lichenized; see Lücking et al. (2017a; classification); sequences are available.

Ramalina Ach. 1809, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, c. 230 species, type: *R. fraxinea* (L.) Ach., lichenized, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Moncada et al. (2014a; taxonomy), Lücking et al. (2017a; classification), sequences are available for few species.

Ramalodium Nyl. 1879, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, five species, type: *R. succulentum* Nyl., lichenized, see Wedin et al. (2009b; molecular), Hill et al. (2011; new record), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), de Lange and Blanchon (2014; endemic record), Ekman et al. (2014; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Ramboldia Kantvilas & Elix 1994, *Ramboldiaceae*, *Lecanorales*, *Lecanoromycetes*, 33 species, two varieties, type: *R. stuartii* (Hampe) Kantvilas & Elix, lichenized, see Kalb et al. (2009; new species), Upreti et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirika et al. (2012; new record), Kuznetsova et al. (2012; new record), Mayrhofer et al. (2012; new record), Gumboski (2014; new records), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Resl et al. (2015; partial sequence), Singh et al. (2015; molecular), Kantvilas (2016; new species, taxonomy), Zhao et al. (2016c; classification), Lücking et al. (2017a; classification), sequences are available for few species.

Ramgea Brumm. 1992, *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, one species, type: *R. annulispora* Brumm., asexual morph unknown, saprobes, terrestrial, Netherlands, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ramicapitulum Whitton, K.D. Hyde & McKenzie 2012, *Ascomycota* genera *incertae sedis*, one species, type:

R. chinense Whitton, K.D. Hyde & McKenzie, hyphomycetous, sexual morph unknown, saprobes, Hong Kong, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ramicephala Voglmayr & G. Delgado 2002, *Ascomycota* genera *incertae sedis*, one species, type: *R. sphaerospora* Voglmayr & G. Delgado, hyphomycetous, sexual morph unknown, saprobes, aquatic, Cuba, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: WU 22035, cultures and sequences are unavailable.

Ramichloridium Stahel ex de Hoog 1977, *Dissoconiaceae*, *Capnodiales*, *Dothideomycetes*, 35 species, type: *R. apiculatum* (J.H. Mill., Giddens & A.A. Foster) de Hoog, hyphomycetous, sexual morph unknown, saprobes, from soil terrestrial, USA, see Braun et al. (2009; new species), Crous et al. (2009d, e, f, 2014c; phylogeny, new species), Kirschner and Chen (2010; new species), Shivas et al. (2010; new species), Li et al. (2012a; new species; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), cultures and sequences are available, ex-type cultures of the type: QM 7716, MUCL 7991, MUCL 15753, JCM 6972, IMI 100716, CBS 156.59, ATCC 13211 (fide Videira et al. 2016).

Ramimonilia Stielow & Quaedvl. 2014, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *R. apicalis* Stielow. & Quaedvl., hyphomycetous, sexual morph unknown, rock-inhabiting, Spain, see Egidi et al. (2014; morphology, phylogeny), Wijayawardene et al. (2014c, 2017; outline), type: CBS 118327 = TRN437, cultures and sequences available.

Ramoconidiifera B. Sutton, Carmarán & A.I. Romero 1996, *Ascomycota* genera *incertae sedis*, three species, type: *R. verrucosa* B. Sutton, Carmarán & A.I. Romero, hyphomycetous, sexual morph unknown, saprobes, South America, see Seifert et al. (2011; morphology), Whitton et al. (2012a; new species, morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype BAFC 33.275.

Ramonia Stizenb. 1862, *Gyalectaceae*, *Ostropales*, *Lecanoromycetes*, 24 species, type: *R. valenzueliana* (Mont.) Stizenb., lichenized, cosmopolitan, see Lendemer et al. (2009; new species), Knudsen and Kocourková (2010a, b; checklist), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Stepanchikova et al. (2013; new records), Aptroot et al. (2015c; new species), Lücking et al. (2017a; classification), sequences are available.

Ramopenidiella Crous & R.G. Shivas 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *R. cycadicola* Crous & R.G. Shivas, hyphomycetous, sexual morph unknown, saprobe, associated with leaf spots, terrestrial, Australia, see Crous et al. (2014c; morphology, phylogeny), Wijayawardene et al. (2017; outline), culture and sequence are available, holotype and ex-type culture of type: CBS 137973, CBS H-21684.

Ramophialophora M. Calduch, Stchigel, Gené & Guarro 2004, *Sordariales*, genera *incertae sedis*, *Sordariomycetes*, two species, type: *R. vesiculosa* M. Calduch, Stchigel, Gené & Guarro, hyphomycetous, sexual morph unknown, in soil, terrestrial, Europe, see Madrid et al. (2010a; new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Ramsbottomia W.D. Buckley 1924, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, two species, type: *R. lamprosporoidea* W.D. Buckley, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Ramularia Unger 1833 (= *Mycosphaerella* Johanson 1884 *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 1047 species, of which 100 species are presently recognized based on DNA, type: *R. pusilla* Unger, hyphomycetous, sexual morph formerly named in *Mycosphaerella*, plant pathogens, terrestrial, mostly foliicolous, see Crous et al. (2009e, f, 2011e; taxonomy, phylogeny, new species), Kirschner (2009; monograph), Bakhshi et al. (2012; checklist), Braun (2013a, b; monograph), Bruckart et al. (2014; characterization and evaluation, biological control), Ruszkiewicz-Michalska and Połeć (2014; new species, records), Videira et al. (2016; morphology, phylogeny), Park and Shin (2016; new species, taxonomy), Rossman et al. (2016b; new combination), cultures and sequences are available for most of the species, epitype and ex-epitype culture of type: CBS H-22527, CBS 124973.

Ramulariopsis Speg. 1910, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *R. cnidoscoli* Speg., hyphomycetous, with mycosphaerella-like sexual morph (only known for *R. gossypii*), plant pathogens, associated with leaf spots, Africa, Asia, Australia, Europe, North and South America, Oceania, see Seifert et al. (2011), Pirnia et al. (2012; taxonomy), Wijayawardene et al. (2012, 2014, 2017; outline), Videira et al. (2016, phylogeny), sequence data only available for the non-type: *R. gossypii* and *R. pseudoglycines*, lectotype of type: LPS 12851.

Ramulispora Miura 1920, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, twelve species, type:

R. andropogonis Miura, hyphomycetous, sexual morph unknown, plant pathogens, on Poaceae, see Crous et al. (2009d, f; review, phylogeny, taxonomy), Wijayawardene et al. (2012, 2017; outline), Videira et al. (2017; morphology, phylogeny), cultures and sequences are available.

Ramusculicola Thambug. & K.D. Hyde 2015, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *R. hailandica* Thambugala & K.D. Hyde, asexual morph unknown, saprobes, cosmopolitan, see Thambugala et al. (2015b; taxonomy), Jaklitsch et al. (2016c; treated as a synonym of *Teichospora* but in here we do not agree with them), cultures and sequences are available.

Rasamsonia Houbraken & Frisvad 2011, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, twelve species, type: *R. emersonii* (Stolk) Houbraken & Frisvad, thermotolerant, *saprobes*, human pathogen, terrestrial, worldwide, see Houbraken et al. (2012; description, morphology, phylogeny), Doyon et al. (2013; pulmonary and graft infection), Giraud et al. (2013; pathogenesis), Houbraken et al. (2013; antifungal susceptibility), Salgüero et al. (2013; infection in dog), Su and Cai (2013; new species), Tanney and Seifert (2013; new species), Steinmann et al. (2014; real time PCR, clinical diagnosis), Matos et al. (2015; isolation from cystic fibrosis patient), Crous et al. (2016b; new species, phylogeny), Gudmundsson et al. (2016; extrolite profiling), Ishiwada et al. (2016; mixed infection), Jurjevic et al. (2016; new species), Mouhajir et al. (2016; rep-PCR, clinical diagnosis), Steinmann et al. (2016; isavuconazole drug response), cultures and sequences are available for all species, holotype and ex-type of type: CBS H-7817; CBS 393.64.

Ranulospora Senan., Camporesi & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *R. alnii* Senan., Camporesi & K.D. Hyde, asexual morphs unknown, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), holotype of the type: MFLU 16–2868, cultures and sequences are available.

Rasutoria M.E. Barr 1987, *Euantennariaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *R. abietis* (Dearn.) M.E. Barr, asexual morph unknown, plant pathogens, see Crous et al. (2009d, e, f; morphology, phylogeny), Wijayawardene et al. (2012, 2014c; outline), GenBank: GU371809, holotype of type: BPI 691065, cultures are unavailable.

Rattania Prabhug. & Bhat 2009, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *R. setulifera* Prabhug. & Bhat, hyphomycetous, sexual morph unknown, Endophytic, Terrestrial, India, see Shenoy et al. (2010; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available, ex-type culture: GUFCC15501 (MTCC 9698).

Readeriella Syd. & P. Syd. 1908, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, five species, type: *R. mirabilis* Syd. & P. Syd., coelomycetous, sexual morph unknown, with *Cibiessia* synasexual morph, saprobes, pathogens, terrestrial, cosmopolitan, see Crous et al. (2009c, d, e, f, 2016a, 2016b; new species, phylogeny), Wijayawardene et al. (2012, 2014c, 2016b, 2017; outline, taxonomy, phylogeny), Quaedvlieg et al. (2014; new species, phylogeny), cultures and sequences are available.

Readerielliopsis Crous & C. Decock 2015, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *R. fuscoporiae* Crous & C. Decock, coelomycetes, sexual morph unknown, saprobes, French Guiana, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2016b, 2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22229, CPC 24637.

Rebentischia P. Karst. 1869, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, 16 species, type: *R. pomiformis* P. Karst., saprobes on decaying wood, widespread, asexual morph unknown, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rechingeriella Petr. 1940, *Zopfiaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *R. insignis* Petr., asexual morph unknown, saprobes, terrestrial, Asia, Europe, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Hyde et al. (2013; morphology, outline), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Reconditella Matzer & Hafellner 1990, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *R. physconiarum* Matzer & Hafellner, asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rectifusarium L. Lombard, Crous & W. Gams 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *R. ventricosum* (Appel & Wollenw.) L. Lombard & Crous, asexual morph hyphomycetous, saprobes, terrestrial, Germany, see Lombard et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), holotype and ex-type cultures of the type: CBS H-21948, CBS 430.91 = NRRL 25729.

Recurvomyces Selbmann & de Hoog 2008, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*,

hyphomycetous, one species, type: *R. mirabilis* Selbmann & de Hoog, sexual morph unknown, rock-inhabiting, Antarctica, Europe, see Selbmann et al. (2008; morphology; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Quaedvlieg et al. (2014; phylogeny), Selbmann et al. (2015; distributional pattern), holotype and ex-type strain of the type: CBS H-20178, CBS 119434, cultures and sequences available.

Redbia Deighton & Piroz. 1972, *Ascomycota* genera *incertae sedis*, two species, type: *R. pucciniicola* Deighton & Piroz., hyphomycetous, sexual morph unknown, fungicolous, tropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Reddellomyces Trappe, Castellano & Malajczuk 1992, *Tuberaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *R. westraliensis* (G.W. Beaton & Malajczuk) Trappe, Castellano & Malajczuk, asexual morph unknown, saprobes, saprobes, terrestrial, Australasia, Mediterranean, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species (unpublished).

Redheadia Y. Suto & Suyama 2005, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *R. quercus* Y. Suto & Suyama, asexual morph unknown, saprobes, Honshu, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al (2016a; classification), cultures and sequences are unavailable.

Redingeria Frisch 2006, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, twelve species, type: *R. leiostoma* (Nyl.) Frisch, asexual morph unknown, lichenized, terrestrial, tropical, placement in *Graphidaceae* supported by molecular data, see Lumbsch and Huhndorf (2010; outline), Cáceres et al. (2012b; new combinations), Rivas Plata et al. (2012a, b; molecular, classification), Kirk et al. (2013; genus accepted), van den Broeck et al. (2014; new species), Lücking et al. (2017a; classification), sequences are available.

Redonia C.W. Dodge 1973, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, two species, type: *R. chilena* C.W. Dodge, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are unavailable.

Redonographa Lücking, Tehler & Lumbsch 2013, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *R. chilensis* (Zahlbr.) Lücking & Tehler, asexual morph unknown, lichenized, terrestrial, tropical, see Lücking et al. (2013, 2014, 2017a; phylogeny, new species, classification), sequences are available.

Refractohilum D. Hawksw. 1977, *Ascomycota* genera *incertae sedis*, six species, type: *R. galligenum* D. Hawksw., hyphomycetous, sexual morph unknown, lichenicolous, fungicolous, widespread, terrestrial, see Seifert et al. (2011; genus accepted), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: K(M)-IMI 212682.

Regiocrella P. Chaverri & K.T. Hodge 2006, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *R. camerunensis* P. Chaverri & H.C. Evans, asexual morph unknown, mainly coprophilous, terrestrial, Cameroon, China, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: CUP 67512, cultures and sequences are available.

Rehmiodothis Theiss. & Syd. 1914, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *R. osbeckiae* (Berk. & Broome) Theiss. & Syd., from living leaves, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rehmiomycella E. Müll. 1962, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. phoradendri* (Rehm) E. Müll., saprobes, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Reichlingia Diederich & Scheid. 1996, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *R. leopoldii* Diederich & Scheid., two species known from the sexual stage, the generic type only known from the asexual stage with loose, sporodochia-like conidiomata, lichenized, on saxicolous and corticolous, Europe and Africa (Uganda), see Motiejūnaitė (2011; taxonomy), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Frisch et al. (2014), Lücking et al. (2017a; classification), holotype of the type: STU Wirth 23450, sequences are available.

Reimnitzia Kalb 2001, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *R. santensis* (Tuck.) Kalb, asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2012a; phylogeny), see Lumbsch and Huhndorf (2010; outline), Kraichak et al. (2014: phylogeny), Lücking et al. (2017a: phylogeny, classification), sequences are available.

Relicina (Hale & Kurok.) Hale, 1974, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 60 species, type: *R. eumorpha* (Hepp) Hale, asexual morph, undetermined, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Benatti (2011; taxonomy), Kirk et al.

(2013; genus accepted), Sethy et al. (2012; taxonomy), Crespo et al. (2010b; phylogeny), de Paz et al (2011; phylogeny), Buaruang et al. (2015; lineage), Kirika et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Remersonia Samson & Seifert 1997, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *R. thermophila* (Fergus) Seifert & Samson, hyphomycetous, sexual morph unknown, in soil, terrestrial, Asia, Australasia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Remispora Barghoon & Linder 1944, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, six species, type: *R. maritima* Linder, asexual morph unknown, saprobes, marine, worldwide, see Jones et al. (2009b, 2015; outline), Lumbsch and Huhndorf (2010; outline), Abdel-Wahab (2011b; phylogeny), Sakayaroj et al. (2011a; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are available.

Remototrachyna Divakar & A. Crespo 2009, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 20 species, type: *R. flexilis* (Kurok.) Divakar & A. Crespo, asexual morph, undetermined, terrestrial, see Flakus et al. (2012; taxonomy), Crespo et al. (2010b; phylogeny), de Paz et al. (2011; origin and diversification), Divakar et al. (2012; data partial sequencing), Thell et al. (2012; review of the family Parmeliaceae), Masson et al. (2015; sequencing data), Lücking et al. (2017a; classification), cultures and sequences are available.

Renispora Sigler & J.W. Carmich. 1979, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, two species, type: *R. flavissima* Sigler, P.K. Gaur, Lichtw. & J.W. Carmich., asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pitt et al. (2013; partial sequence), cultures available for the type: ATCC 38503.

Repetoblastiella R.F. Castañeda, Minter & M. Stadler 2010, *Ascomycota* genera *incertae sedis*, one species, type: *R. olivacea* R.F. Castañeda, Minter & M. Stadler, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Repetophragma Subram. 1992, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, 29 species, type: *R. biseptatum* (M.B. Ellis) Subram., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Marincowitz et al. (2008; new species), Silvera-Simón et al. (2009; new species), Zhang et al. (2009c; phylogeny), Castañeda-Ruiz et al. (2011, 2013b; new species, revision), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Ma et al. (2014a, b; new species), cultures and sequences are available but lacking for the type.

Requienella Fabre 1883, *Requienellaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *R. seminuda* (Pers.) Boise, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; phylogeny), Lücking et al. (2017a; classification), cultures available for the type: RS12, RS13, sequences are available.

Resendea Bat. 1961, *Dothideomycetes* genera *incertae sedis*, two species, type: *R. paraguayensis* Bat., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Retiarius D.L. Olivier 1978, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, two species, type: *R. superficiaris* D.L. Olivier, hyphomycetous, sexual morph unknown, on pollen, South Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Reticulosphaeria Sivan. & Bahekar 1982, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *R. indica* Sivan. & Bahekar, asexual morph unknown, on stems of *Achyranthes aspera*, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 254813, cultures and sequences are unavailable.

Retroa P.F. Cannon 1991, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *R. dimorphandrae* (F. Stevens) P.F. Cannon, from living leaves, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Retroconis de Hoog & Bat. Vegte 1989, *Ascomycota* genera *incertae sedis*, one species, type: *R. fusiformis* (S.M. Reddy & Bilgrami) de Hoog & Bat. Vegte, hyphomycetous, sexual morph unknown, saprobes, on human skin, terrestrial, Africa, Asia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 452.71.

Retrostium Nakagiri & Tad. Ito 1997, *Spathulosporaceae*, *Spathulosporales*, *Sordariomycetes*, one species, type: *R. amphiroae* Nakagiri & Tad. Ito, spermatiophores or asexual morph hyphomycetous,

biotrophic on marine red alga, Japan, holotype of the type: IFO H-12210, cultures and sequences are unavailable

Rhabdoclema Syd. 1939, *Ascomycota* genera *incertae sedis*, two species, type: *R. chusqueae* Syd., coelomycetous, sexual morph unknown, saprobes, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhabdocline Syd. 1922 (= *Meria* Vuill. 1896; *Hartigiella* Syd. & P. Syd. 1900, *Rhabdogloeum* Syd. 1922, *fide* Johnston et al. 2014b), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *R. pseudotsugae* Syd., asexual morph hyphomycetous, saprobes, pathogens, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Morgenstern et al. (2013; pathogens), Johnston et al. (2014b; nomenclature), Sweet et al. (2015; pathogens, DNA), cultures available for the type.

Rhabdodiscus Vain. 1921, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 42 species, type: *R. auberianus* (Mont.) Vain., asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2012a; phylogeny), Cáceres et al. (2014; taxonomy), Papong et al. (2014; taxonomy), Peláez et al. (2014; new combination), Lücking et al. (2017a; classification), Ohmura et al. (2016; taxonomy), sequences are available.

Rhabdogloeopsis Petr. 1925, *Ascomycota* genera *incertae sedis*, two species, type: *R. balsameae* (Davis) Petr., coelomycetous, sexual morph unknown, saprobes, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhabdomyces Balbiani 1889, *Ascomycota* genera *incertae sedis*, one species, type: *R. lobjoyi* Balbiani., coelomycetous, sexual morph unknown, saprobes, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhabdopsora Müll. Arg. 1888, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, two species, type: *R. polymorpha* Müll. Arg., lichenized; see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Rhabdospora (Durieu & Mont.) Sacc. 1884, *Dothideomycetes* genera *incertae sedis*, c. 150 species, type: *S. oleandri* Durieu & Mont., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhabdostromella Höhn. 1915, *Ascomycota* genera *incertae sedis*, one species, type: *R. rubi* Höhn., coelomycetous, sexual morph unknown, saprobes, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhabdostromina Died. 1921, *Ascomycota* genera *incertae sedis*, three species, type: *R. empetri* (Rostr.) Died., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Punithalingam and Spooner (2011a; reinstated the genus, morphology, new comb.), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Rhachomyces Thaxt. 1895 (= *Acanthomyces* Taxt. 1892 *fide* Species Fungorum 2017), *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, c. 80 species, type: *R. lasiophorus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic, worldwide, see Rossi and Proano (2009; new species), Santamaría and Faille (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015b; DNA, review), sequences are available.

Rhagadolobiopsis Guatim. & R.W. Barreto 2014, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes* families *incertae sedis*, two species, type: *R. thelypteris* Guatimosim & R.W. Barreto, asexual morph unknown, saprobes, terrestrial, Brazil, see Guatimosim et al. (2014; taxonomy), holotype of the type: VIC 31939, cultures and sequences are available.

Rhagadolobium Henn. & Lindau 1897, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, *Dothideomycetes*, seven species, type: *R. hemitheliae* Henn. & Lindau, asexual morph unknown, epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Inácio et al. (2012; taxonomy), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rhagadostoma Körb. 1865, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, six species, type: *R. corrugatum* Körb., asexual morph unknown, saprobes, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rhagadostomella Etayo 2002, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *R. gregaria* Etayo, asexual morph unknown, lichenicolous on *Sticta*, terrestrial, South America, see Maharachchikumbura et al. (2015b, 2016b; outline), need revision, holotype of the type: COL, Etayo 15943, cultures and sequences are unavailable.

Rhamphoria Niessl 1876, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, 14 species, type: *R. delicatula* Niessl, asexual morph hyphomycetous (phaeoisaria-like), saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Rhamphosphaeria Kirschst. 1936, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. capillata* Kirschst., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rhaphidicyrtis Vain. 1921, *Pyrenulales incertae sedis*, *Eurotiomycetes*, one species, type: *R. trichosporella* (Nyl.) Vain., asexual morph unknown, lichenized, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Rhexoacrodictys W.A. Baker & Morgan-Jones 2002, *Ascomycota* genera *incertae sedis*, five species, type: *R. erecta* (Ellis & Everh.) W.A. Baker & Morgan-Jones, sexual morph unknown, saprobes, terrestrial, see Seifert et al. (2011; morphology), Zhao et al. (2011a; outline), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Rhexoampullifera P.M. Kirk 1982, *Pyrenulales incertae sedis*, *Eurotiomycetes*, three species, type: *R. fagi* (M.B. Ellis) P.M. Kirk & C.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, terrestrial, British Isles, Brazil, Czech Republic, see Seifert et al. (2011; morphology), Koukol (2012; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhexocercosporidium U. Braun 1994, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *R. carotae* (Årsvoll) U. Braun, hyphomycetous, terrestrial, soil-borne pathogens, root-inhabiting and on foliage, Asia, Europe, North America, see Nekoduka et al. (2010, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), ex-type strains of type: ATCC 18513 = CBS 418.65 = DAOM 116857.

Rhexodenticula W.A. Baker & Morgan-Jones 2001, *Cordanaceae*, *Coniochaetales*, *Sordariomycetes*, four species, type: *R. cylindrospora* (R.F. Castañeda, Saikawa & Hennebert) W.A. Baker & Morgan-Jones, saprobes, saprobes, cosmopolitan, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Klaubauf et al. (2014; taxonomy, phylogeny), Crous et al. (2016a, b; new species, phylogeny), cultures and sequences are available.

Rhexophiale Th. Fr. 1860, *Sagiolechiaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *R. coronata* Th. Fr., lichenized, see Baloch et al. (2010; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Rhexoprolifer Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *R. variabilis* Matsush., hyphomycetous, sexual morph unknown, saprobes, France, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhexosporium Udagawa & Furuya 1977, *Sordariales incertae sedis*, *Sordariomycetes*, one species, type: *R. terrestre* Udagawa & Furuya, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rhexothecium Samson & Mouch. 1975, *Eremomycetaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *R. globosum* Samson & Mouch, asexual morph hyphomycetous (trichosporiella-like), saprobes, terrestrial, Egypt, Kenya, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Eremomycetaceae*), Kirk et al. (2013; genus accepted), Giraldo et al. (2014a; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type.

Rhinocladiella Nannf. 1934, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, c. 13 species, type: *R. atrovirens* Nannf., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Wu et al. (2013c; new species), Hernández-Restrepo et al. (2016a; new species), Madrid et al. (2016; new species, phylogeny), cultures and sequences are available.

Rhinocladium Sacc. & Marchal 1885, *Microascaceae*, *Microascales*, *Sordariomycetes*, nine species, type: *R. coprogenum* Sacc. & Marchal ex Marchal, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Lackner et al. (2012; DNA), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are available but lacking for the type.

Rhinotrichella G. Arnaud ex de Hoog 1977, *Ascomycota* genera *incertae sedis*, four species, type: *R. globulifera* G. Arnaud ex de Hoog, hyphomycetous, sexual morph unknown, saprobes, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhipidiomyces Thaxt. 1926, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *R. acriti* Thaxt., asexual morph unknown, biotrophic, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Rhipidocarpon (Theiss.) Theiss. & Syd. 1915, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *R. javanicum* (Pat.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, Java, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rhipidocephalum Trail 1888, *Ascomycota* genera *incertae sedis*, two species, type: *R. abietis* Trail, hyphomycetous, sexual morph unknown, saprobes, British Isles, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhizina Fr. 1815, *Rhizinaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *R. undulata* Fr., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Palomares-Rius et al. (2014; DNA), cultures available for the type: AFTOL-ID 918.

Rhizoblepharia Rifai 1968, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, two species, type: *R. jugispora* Rifai, asexual morph unknown, saprobes, terrestrial, Australia, Jamaica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhizocarpon Ramond ex DC. 1805, *Rhizocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 325 species, 71 subspecies, 197 varieties, 188 forma species, type: *R. geographicum* (L.) DC. morph, undetermined, terrestrial, Europe, Middle East, South Korea, Turkey, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bradwell (2010; applied studies), Matthews and Trenbirth (2011; lichenometry), Sánchez et al. (2014a; physiology), Joshi et al. (2010a; rare lichens), Aptroot and Aslan (2011; rare lichens), Lücking et al. (2017a; classification), sequences are available.

Rhizocladosporium Crous & U. Braun 2007, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *R. argillaceum* (Minoura) Crous & U. Braun asexual morph hyphomycetous, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), holotype and ex-type strains of the type: Tubaki 4262 (IFO); CBS 241.67 = IFO 7055.

Rhizodermea Verkley & Zijlstra 2010, *Dermateaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *R. veluwensis* Verkley & Zijlstra, produced only chlamydospores, sexual morph unknown, from roots, terrestrial, Europe, see Verkley and Hofland-Zijlstra (2010; taxonomy), holotype of the type: CBS 110605 (deposited as culture).

Rhizodiscina Hafellner 1979, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *R. lignyota* (Fr.) Hafellner, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are unavailable.

Rhizogene Syd. & P. Syd. 1921, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. symphoricarpi* (Syd. & P. Syd.) Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Zhang et al. (2011d; provisionally accepted as a genus in *Venturiaceae*), Hyde et al. (2013; excluded the genus from *Venturiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rhizolecia Hertel 1984, *Lecideaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *R. hybrida* (Zahlbr.) Hertel, asexual morph, undetermined, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hertel (2014; taxonomy revision), cultures and sequences are unavailable.

Rhizomyces Thaxt. 1896, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, ten species, type: *R. ctenophorus* Thaxt., asexual morph unknown, biotrophic, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Rhizophila K.D. Hyde & E.B.G. Jones 1989, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. marina* K.D. Hyde & E.B.G. Jones, asexual morph unknown, saprobes, marine, Seychelles, Brunei, Thailand, North Sumatra, Bali, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: IMI 325411, cultures and sequences are unavailable.

Rhizoplaca Zopf 1905, *Lecanoraceae*, *Lecanoromycetes*, *Lecanorales*, eleven species, five sub species, seven varieties, type: *R. opaca* (Ach.) Zopf., asexual morph unknown, lichenized, terrestrial, see Sinha and Jagadeesh Ram (2011; taxonomy), Leavitt et al. (2011a; species delimitation, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Goni et al. (2014; checklist), Kondratyuk et al. (2014; molecular phylogeny), Zhao et al. (2016c; generic concepts, taxonomy), Lücking et al. (2017a; classification), sequences are available.

Rhizopodomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, seven species, type: *R. merragatae* Thaxt., asexual morph unknown, biotrophic, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Rhizosphaera L. Mangin & Har. 1907, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, six species, type: *R. abietis* L. Mangin & Har., sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c; outline), Thambugala et al. (2014a; accepted as a genus in *Dothideaceae*, phylogeny), Kirk et al. (2013; genus accepted), Azeem et al. (2015; DNA, fungi on conifer), cultures and sequences are available but lacking for the type.

Rhizosphaerina B. Sutton 1986, *Ascomycota* genera *incertae sedis*, two species, type: *R. variabilis* B. Sutton, coelomycetous, sexual morph unknown, saprobes, Australia, South East Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhizotexis Theiss. & Syd. 1917, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. bauhiniarum* (Henn.) Theiss. & Syd., asexual morph unknown, epiphytes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Dai et al. (2014a; taxonomy), cultures and sequences are unavailable.

Rhizothyrium Naumov 1915 (= *Rhizocalyx* Petr. 1928; *Bactrexcipula* Höhn. 1918 *fide* Johnston et al. 2014b), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *R. abietis* Naumov, asexual morph coelomycetous, saprobes, terrestrial, Russia, Chile, Siberia, see Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are unavailable.

Rhodesia Grove 1937, *Ascomycota* genera *incertae sedis*, two species, type: *R. subtecta* (Roberge ex Desm.) Grove, coelomycetous, sexual morph unknown, saprobes, Germany, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhodesiopsis B. Sutton & R. Campb. 1979, *Ascomycota* genera *incertae sedis*, two species, type: *R. gelatinosa* B. Sutton & R. Campb., coelomycetous, sexual morph unknown, saprobes, British Isles, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhodopeziza Hohmeyer & J. Moravec 1995, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *R. tuberculata* (Gamundí) J. Moravec & Hohmeyer, asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhodoscypha Dissing & Sivertsen 1983, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *R. ovilla* (Peck) Dissing & Sivertsen, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: HMAS97505.

Rhodosticta Woron. 1911, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *R. caraganae* Woron., coelomycetous, sexual morph unknown, saprobes, Asia, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhodotarzetta Dissing & Sivertsen 1983, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *R. rosea* (Rea) Dissing & Sivertsen, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Rhodothallus Bat. & Cif. 1959, *Ascomycota* genera *incertae sedis*, two species, type: *R. casearaefolius* Bat., Cif. & C.A.A. Costa ex Bat. & Cif., coelomycetous, sexual morph unknown, saprobes, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhodoveronaea Arzanlou, W. Gams & Crous, 2007, *Sordariomycetes* genera *incertae sedis*, type: *R. varioseptata* Arzanlou, W. Gams & Crous, hyphomycetous, sexual morph unknown, one species, saprobes, terrestrial, Germany, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type culture of type: CBS-H 19932, CBS 431.88.

Rhombostilbella Zimm. 1902, *Ascomycota* genera *incertae sedis*, two species, type: *R. rosae* Zimm., hyphomycetous, sexual morph unknown, fungicolous, Asia, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhopalocladium Schroers, Samuels & W. Gams 1999, *Ascomycota* genera *incertae sedis*, two species, type: *R. myxophilum* Schroers, Samuels & W. Gams, hyphomycetous, sexual morph unknown, fungicolous, Asia, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhopalostroma D. Hawksw. 1977, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, eleven species, type: *R. indicum* D. Hawksw. & Muthappa, on wood and bark, tropical, Africa and Asia, asexual morph nodulisporium-like, see Lumbsch and Huhndorf (2010; outline), Stadler et al. (2010a, 2013; phylogeny), Kirk et al. (2013; genus accepted), Daranagama et al. (2014; phylogeny), Daranagama et al. (2015b; includes description of type), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available but lacking for the type:), holotype of type: K(M)-IMI 190605.

Rhopographella (Henn.) Sacc. & Trotter 1913, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. gaduae* (Henn.) Sacc. & Trotter, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rhopographus Nitschke ex Fuckel 1870, *Dothideomycetes* genera *incertae sedis*, six species, type: *R. filicinus* (Fr.) Nitschke ex Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rhymbocarpus Zopf 1896, *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, 17 species, type: *R. punctiformis* Zopf, asexual morph unknown, lichenicolous, terrestrial, Europe, see Diederich et al. (2010b; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Suija et al. (2015b; phylogeny), cultures and sequences are available but lacking for the type.

Rhynchodiplodia Briosi & Farneti 1904, *Ascomycota* genera *incertae sedis*, one species, type: *R. citri* Briosi & Farneti, coelomycetous, sexual morph unknown, saprobes, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhynchomeliola Speg. 1884, *Rhynchostomataceae*, *Eurotiomycetes* families *incertae sedis*, three species, type: *R. pulchella* Speg., asexual morph unknown, lichenicolous, terrestrial, South America, Australasia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Rhynchophoromyces Thaxt. 1908, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eight species, type: *R. rostratus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic on Coleoptera (Hydrophilidae), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhynchoseptoria Unamuno 1940, *Ascomycota* genera *incertae sedis*, one species, type: *R. caballeroana* Unamuno, coelomycetous, sexual morph unknown, saprobes, Morocco, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhynchosphaeria (Sacc.) Berl. 1890, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. dusenii* Henn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rhynchosporina Arx 1957, *Ascomycota* genera *incertae sedis*, two species, type: *R. meinersii* (R. Sprague) Arx, hyphomycetous, sexual morph unknown, terrestrial, plant pathogens, leaf spotting, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rhynchosporium Heinsen ex A.B. Frank 1897, *Ploettnerulaceae*, *Helotiales*, *Leotiomycetes*, five species, type: *R. graminicola* Heinsen ex A.B. Frank, hyphomycetous, terrestrial, plant pathogens, leaf spotting, worldwide, see Seifert et al. (2011; morphology), Zaffarano et al. (2011, taxonomy, phylogeny), King et al. (2013, 2014, genetics, taxonomy), Torriani et al. (2014, genetics), Braun (2016, nomenclature of the type), Jaklitsch et al. (2016a; classification), ex-epitype: RS99CH6-C1a.

Rhynchostoma P. Karst. 1870 (= *Rhynchostoma* P. Karst. 1873 *fide* Species Fungorum 2017), *Rhynchostomataceae*, *Eurotiomycetes* families *incertae sedis*, c. 10 species, type: *R. minutum* P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Marincowitz et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Rhytidenglerula Höhn. 1918, *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, eleven species type: *R. carnea* (Ellis & G. Martin) Höhn., asexual morph coelomycetous, saprobes, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Dai et al. (2014c; morphology), cultures and sequences are unavailable, type specimen need recollect and sequence.

Rhytidhysteron Speg. 1881 (= *Brunaudia* (Sacc.) 1898; = *Eutryblidiella* (Rehm) Höhn., 1959; = *Rhytidopeziza* Speg. 1885; = *Triblidium* subgen. *Brunaudia* Sacc. 1883; = *Tryblidiella* Sacc. 1883; = *Tryblidiella* sect. *Eutryblidiella* Rehm 1881 *fide* Species Fungorum 2017), *Hysteriaceae*,

Hysteriales, *Dothideomycetes*, 19 species, type: *R. brasiliense* Speg, diplodia- and aposphaeria-like, saprobes, terrestrial, worldwide, see Boehm et al. (2009a, b; phylogeny), Murillo et al. (2009; morphology, chemistry, phylogeny), Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, key, phylogeny), Almeida et al. (2014a; diversity), Chacón et al. (2014; diversity), Mahajan et al. (2014; pathogenicity), Mishra et al. (2014a; pathogenicity), Pudhom and Teerawatananond (2014; chemistry), Yacharoen et al. (2015; revision, classification, morphology), Chokpaiboon et al. (2016; chemistry), Doilom et al. (2017; morphology, phylogeny), Thambugala et al. (2016; morphology, phylogeny), cultures and sequences are available, holotype of type: LPS 1189.

Rhytidiella Zalasky 1968, *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *R. moriformis* Zalasky, asexual morph coelomycetous (phaeoseptoria-like), pathogen, terrestrial, see Lumbsch and Huhndorf (2010; outline), Doilom et al. (2013; accepted as a genus in *Cucurbitariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Rhytidospora Jeng & Cain 1977, *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, five species, type: *R. tetraspora* Jeng & Cain, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rhytisma Fr. 1819 (= *Melasmia* Lév. 1846 *fide* Johnston et al. 2014b), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, 127 species, type: *R. acerinum* (Pers.) Fr., asexual morph unknown, saprobes, terrestrial, worldwide, see Suto (2009; new species, Japan), Wang et al. (2009a; new species), Hou et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Masumoto et al. (2014, 2015; new species, Japan, phylogeny), sequences are available for voucher Hou 203 (AAUF).

Ricasolia De Not. 1846, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, 15 species, type: *R. amplissima* (Scop.) De Not., lichenized; see Moncada et al. (2013a; taxonomy), Cornejo and Scheidegger (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Richonia Boud. 1885, *Zopfiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *R. variospora* Boud., asexual morph unknown, France, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Zopfiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rickia Cavara 1899, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 161 species, type: *R. wasmannii* Cavara, asexual morph unknown, biotrophic hosts are Acari (*Chelicerata*), *Diplopoda* (*Myriapoda*), Formicidae (*Hexapoda*: *Hymenoptera*), and several other groups of insects (*Hexapoda*: *Blattodea*, *Coleoptera*, *Orthoptera*), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Haelewaters et al. (2015a; review of R. wasmannii), Santamaría et al. (2016; most recent species descriptions), Pfliegler et al. (2016a; host specificity), sequences are available.

Rikatlia P.F. Cannon 1993, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *R. lungusaensis* (Henn.) P.F. Cannon, from living leaves, Eastern America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rileya A. Funk 1979, *Ascomycota* genera *incertae sedis*, one species, type: *R. piceae* A. Funk, coelomycetous, sexual morph unknown, saprobes, Canada, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rimaconus Huhndorf, F.A. Fernández, Joanne E. Taylor & K.D. Hyde 2001, *Chaetosphaeriales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *R. jamaicensis* (Seaver) Huhndorf, F.A. Fernández, Joanne E. Taylor & K.D. Hyde, hyphomycetous, sexual morph unknown, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariomycetidae*, genera *incertae sedis*), Huhndorf and Miller (2011; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for voucher SMH 5212 of the type.

Rimora (Kohlm. & Vittal) Kohlm., Volkm.-Kohlm., Suetrong, Sakay. & E.B.G. Jones 2009, *Aigialaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *R. mangrovei* (Kohlm. & Vittal) Kohlm., Volkm.-Kohlm., Suetrong, Sakay. & E.B.G. Jones, asexual morph unknown, saprobes, marine, Belize, India, Thailand, see Suetrong et al. (2009; morphology, phylogeny), Hyde et al. (2013; accepted as a genus in *Aigialaceae*), Wijayawardene et al. (2014c; outline, accepted as *Aigialaceae*), Jones et al. (2015; outline, marine), Phookamsak et al. (2015b; taxonomy), sequences are available.

Rimula Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *R. faginea* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010;

outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as *Patellariaceae*), cultures and sequences are unavailable.

Rimularia Nyl., 1868, *Trapeliaceae*, *Baeomycetales*, *Lecanoromycetes*, 40 species, type, *R. limborina* Nyl., asexual morph, undetermined, terrestrial, terricolous, See Lumbsch and Huhndorf (2010; outline), Øvstedal (2012; taxonomy), Kirk et al. (2013; genus accepted), Kantvilas (2014a; taxonomy), Spribille et al. (2014a; molecular systematics), Resl et al. (2015; phylogenetic studies), Lücking et al. (2017a; classification), cultures and sequences are available.

Rinaldiella D. A. Sutton, Y. Marín, Guarro & E.H. Thomps. 2014, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *R. pentagonospora* D.A. Sutton, Y. Marín, Guarro & E.H. Thomps., asexual morph unknown, human pathogens, Georgia, see Crous et al. (2014c; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Rinodina (Ach.) Gray, 1821, *Physciaceae*, *Lecanorales*, *Lecanoromycetes*, 692 species, type: *R. sophodes* (Ach.) A. Massal., asexual morph unknown, terrestrial, corticolous, muscicolous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Giralt et al. (2009; new species), Giralt and Klaus (2010; taxonomy), Nadyeina et al. (2010; sequencing and taxonomy), Sheard (2010; taxonomy), Kınalıoglu and Aptroot (2011; new records), Sheard et al. (2011; new species), Gaya et al. (2012; comprehensive phylogenetic studies), Upreti and Patel (2012; environmental studies, ecology), Lücking et al. (2017a; classification), Resl et al. (2016, sequencing data, unpublished), sequences are available.

Rinodinella H. Mayrhofer & Poelt, 1978, *Physciaceae*, *Lecanorales*, *Lecanoromycetes*, six species, four varieties, type: *R. controversa* (A. Massal.) H. Mayrhofer & Poelt, asexual morph unknown, terrestrial, see Elix (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; taxonomy), Gasparyan and Sipman (2013; new records), Kirk et al. (2013; genus accepted). Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Riomyces A. Ferrer, A.N. Mill., C. Sarmiento et Shearer 2012, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. rotundus* A. Ferrer, A.N. Mill., Costa Rica, see Ferrer et al. (2012; taxonomy), cultures and sequences are available.

Rivilata Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1998, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. ius* Kohlm., Volkm.-Kohlm. & O.E. Erikss, asexual morph unknown, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rivulicola K.D. Hyde 1997, *Sordariomycetes* genera *incertae sedis*, three species, type: *R. incrustata* K.D. Hyde, saprobes, found on decaying woody substrates in freshwater habitats, Queensland, Florida, Hong Kong, see Raja et al. (2009a; morphology), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al (2015b, 2016b; outline), holotype of type: BRIP 23340.

Rizalia Syd. & P. Syd. 1914, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, two species, type: *R. fasciculata* Syd. & P. Syd, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Robakia Petr. 1952, *Ascomycota* genera *incertae sedis*, one species, type: *R. arctica* Petr., coelomycetous, sexual morph unknown, saprobes, Norway, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Robergea Desm., 1847, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, 13 species, type: *R. unica* Desm., asexual morph, undetermined, terrestrial, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Robillarda Sacc. 1880, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, eight species, type: *R. sessilis* (Sacc.) Sacc., sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2015a; phylogeny, epitypification, new species), Maharachchikumbura et al. (2015b, 2016b; outline), epitype and ex-epitype of the type: CBS H-22273, CBS114312.

Robillardiella S. Takim. 1943, *Dothideomycetes* genera *incertae sedis*, type: data inadequate, see Kirk et al. (2008; treated as nom. dub.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Robincola Velen. 1947, *Lecanoromycetes* genera *incertae sedis*, one species, type: *R. gregaria* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as *Lecanoromycetes*), cultures and sequences are unavailable.

Roburnia Velen. 1947, *Lecanoromycetes* genera *incertae sedis*, one species, type: *R. karschioides* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch

et al. (2016a; classification, treated as *Lecanoromycetes*), cultures and sequences are unavailable.

Roccella DC. 1805, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 24 species, type: *R. fuciformis* (L.) DC., asexual morph unknown, lichenized, terrestrial, Africa, Asia, see Lumbsch and Huhndorf (2010; outline), Tehler et al. (2009b, 2010; evolution, molecular taxonomy), Aptroot and Schumm (2011; worldwide key), Bates et al. (2011; ecology), Tehler (2011, 2012; taxonomy), Kirk et al. (2013; genus accepted), Ertz et al. (2014b; taxonomy), Kambar et al. (2014; antimicrobial), Notov (2014; taxonomy), Shukla et al. (2014a; natural dyes), Fiorentino (2015; notes), Lücking et al. (2017a; classification, but wrongly citing 40 species), sequences are available.

Roccellina Darb. 1898, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 35 species, type: *R. condensata* Darb., asexual morph unknown, lichenized, terrestrial, see Kocourková et al. (2010; taxonomy), Lumbsch and Huhndorf (2010; outline), Rotter (2010; list), Ertz and Tehler (2011; phylogeny), Kirk et al. (2013; genus accepted), de Lange (2014; taxonomy), Ertz et al. (2015b, c; phylogeny), Lücking et al. (2017ab; classification), sequences are available.

Roccellinastrum Follmann 1968, *Micareaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *R. spongoideum* Follmann, asexual morph unknown, lichenized, terrestrial, Chile, Tasmania, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification); cultures and sequences are unavailable.

Roccellographa J. Steiner, 1902, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *R. cretacea* J. Steiner, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Rodaucea W. Rossi & Santam. 2012, *Teratomyceteae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *R. salgadoi* W. Rossi & Santam., asexual morph unknown, biotrophic only host known is *Eucatops curtus* Salgado (Coleoptera, Cholevidae), Ecuador, see Rossi and Santamaría (2012; taxonomy, morphology).

Rodentomyces Doveri, Pecchia, Sarrocco & Vannacci 2010, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *R. reticulatus* Doveri, Pecchia, Sarrocco & Vannacci, asexual morph unknown, saprobes, terrestrial, Italy, see Doveri et al. (2010; taxonomy, phylogeny), Lombard et al. (2015b; taxonomy, phylogeny, doubt the placement in *Nectriaceae* since low bootstrap values in phylogenetic analyses), Maharachchikumbura et al. (2015b, 2016b; outline), Index Fungorum (2016; fixed the nomenclature issue), holotype and ex-type cultures of the type: CBS H-21948, CBS 128675.

Rodwayella Spooner 1986 (= *Remleria* Raitv. 2004 *fide* Jaklitsch et al. 2016a), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *R. sessilis* (Rodway) Spooner, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Roesleria Thüm. & Pass. 1877, *Roesleriaceae*, *Helotiales*, *Leotiomycetes*, c. 50 species, type: *R. subterranea* (Weinm.) Redhead, asexual morph unknown, saprobes, terrestrial, Europe, see Kirchmair et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Roeslerina Redhead 1985, *Ascomycota* genera *incertae sedis*, two species, type: *R. radicella* Redhead, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available for the type (unpublished).

Rogellia Döbbeler 1999, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *R. nectrioidea* Döbbeler, asexual morph unknown, saprobes, terrestrial, Tierra del Fuego, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rogergoosiella A. Hern.-Gut. & J. Mena 1996, *Ascomycota* genera *incertae sedis*, one species, type: *R. roystoneicola* A. Hern. Gut. & J. Mena, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rogersonia Samuels & Lodge 1996, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *R. striolata* Samuels & Lodge, asexual morph unknown, saprobes, terrestrial, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Rolfidium Moberg, 1986, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, two species, *R. peltatum* Moberg, asexual morph, undetermined, terrestrial, East Africa, Sri Lanka, Mascarenes, see Ekman et al. (2008; evolution of the ascus), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); Molecular and culture data unavailable.

Rolueckia Papong, Thammath. & Boonpr. 2008, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, three species; type: *R. conspersa* (Stirt.) Papong, Thammath. &

Boonpr., lichenized, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; classification), Lücking et al. (2017a; classification), sequences are unavailable.

Romellina Petr. 1955, *Sordariomycetes* genera *incertae sedis*, one species, type: *R. variabilis* Petr., asexual morph unknown, on insects, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Romjularia Timdal 2007, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *R. lurida* (Ach.) Timdal, lichenized, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Rommelaarsia Baral & Haelew. 2015, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *R. flavovirens* Baral, Tanchaud & Romm., asexual morph hyphomycetous, saprobes, terrestrial, see Baral and Haelewaters (2015; morphology, DNA, phylogeny), Guatimosim et al. (2016b; phylogeny), sequences are available.

Ronnigeria Petr. 1947, *Leptopeltidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *R. arctica* (Oudem.) Petr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted as a genus in *Leptopeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Ropalospora A. Massal. 1860, *Ropalosporaceae*, *Umbilicariales*, *Lecanoromycetes*, eight species and three forma species, type: *R. caffra* A. Massal., asexual morph, unknown, terrestrial, Europe, Japan, see Hauck et al. (2009; biochemical studies), Lõhmus and Lõhmus (2010; conservation studies), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lendemer (2012a, b; floristic studies), Lücking et al. (2017a; classification), sequences re available.

Rosasphaeria Jaklitsch & Voglmayr 2012, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *R. moravica* (Petr.) Jaklitsch & Voglmayr, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), epitype and ex-epitype of the type: WU 31334, LMM = CBS124270.

Roscoepoundia Kuntze 1898, *Ascomycota* genera *incertae sedis*, one species, type: *R. croceola* (Sacc.) Kuntze, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rosellinia De Not. 1844 (= *Amphisphaerella* Henn. 1902; = *Byssitheca* Bonord. 1864; = *Dematophora* R. Hartig 1883; = *Vrikshopama* D. Rao & P. Rag. Rao *fide* Réblová et al. 2016c; Wendt et al. 2017), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *R. aquila* (Fr.) Ces. & De Not., asexual morph unknown, saprobes, terrestrial, Italy, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Petrini and Petrini (2012; taxonomy, monograph), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; phylogeny), Su et al. (2016a; new species), Crous et al. (2017; new species), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Roselliniella Vain. 1921, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, 15 species, type: *R. nephromatis* (P. Crouan & H. Crouan) Matzer & Hafellner, asexual morph unknown, saprobes, lichenicolous, terrestrial, worldwide, see Zhurbenko et al. (2009; new species), Hawksworth et al. (2010; new species, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariales*, genera incertae sedis), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), van den Boom (2015; new species), cultures and sequences are available but lacking for the type.

Roselliniomyces Matzer & Hafellner 1990, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *R. trichotheliorum* Matzer & Hafellner, asexual morph unknown, lichenicolous, terrestrial, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Roselliniopsis Matzer & Hafellner 1990, *Sordariales*, genera *incertae sedis*, *Sordariomycetes*, nine species, type: *R. groedensis* (Zopf) Matzer & Hafellner, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kaur and Gehlot (2011; new species, India), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2013b; new species, South Korea), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Rosellinula R. Sant. 1986, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. haplospora* (Th. Fr. & Almq.) R. Sant., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rosenscheldia Speg. 1885, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. paraguaya* Speg., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Rosenscheldiella Theiss. & Syd. 1915, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. styracis* (Henn.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Sultan et al. (2011; new species, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), cultures and sequences are available only for *R. korthalsellae* Sultan, P.R. Johnst., D.C. Park & A.W. Robertson.

Roseodiscus Baral 2006, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, six species, type: *R. rhodoleucus* (Fr.) Baral, asexual morph unknown, from soil, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Hyaloscyphaceae*), Wieschollek et al. (2011; new species), Kirk et al. (2013; genus accepted), Zheng and Zhuang (2013; new species, Chi), Baral and Haelewaters (2015; DNA, phylogeny), cultures and sequences are available.

Rossiomyces R.K. Benj. 2001, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *R. falcatus* (T. Majewski) R.K. Benj., asexual morph unknown, biotrophic on Coleoptera in fungi (*Cryptophagus* species, Cryptophagidae), Europe, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Rossmania Lar. N. Vassiljeva 2001, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *R. ukurunduensis* Lar. N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, temperate north-eastern Asia, see Cheewangkoon et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Kruys and Castlebury (2012; phylogeny), Voglmayr and Jaklitsch (2014; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2017; placement), holotype of type: VLA P-2944.

Rostania Trevis. 1880, *Collemataceae*, *Peltigerales*, *Lecanoromycetes*, eight species, type: *R. quadrata* (J. Lahm ex Körb.) Trevis., lichenized, see Otálora et al. (2013, 2014; classification), Tagirdzhanova et al. (2014; new report, Russia), Jørgensen and Palice (2015; new combination), McMullin (2015; checklist), Stehn et al. (2015; list), Lücking et al. (2017a; classification), culture and sequences are unavailable.

Rostraureum Gryzenh. & M.J. Wingf. 2005, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *R. tropicale* Gryzenh. & M.J. Wingf., asexual morph unknown, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type cultures of type: PREM 57519, CMW 9972.

Rostrohypoxylon J. Fourn. & M. Stadler 2010, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, eight species, type: *R. terebratum* J. Fourn. & M. Stadler, asexual morph hyphomycetous (sporothrix-like to virgariella-like), terrestrial, saprobes, Thailand, see Fournier et al. (2010; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available.

Rostrupiella Jørg. Koch, K. L. Pang & E. B. G. Jones 2007, *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes*, one species, type: *R. danica* Jørg. Koch, K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, Denmark, Norway, see Jones et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015b, 2016b; review), sequences are available, holotype of type: JK 539.

Rosulomyces S. Marchand & Cabral 1976, *Ascomycota* genera *incertae sedis*, one species, type: *R. arthrosporioides* Marchand & Cabral, hyphomycetous, sexual morph unknown, from soil, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rota Bat., Cif. & Nascim. 1959, *Ascomycota* genera *incertae sedis*, one species, type: *R. pulchra* Bat., Cif. & Nascim., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rotiferophthora G.L. Barron 1991, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, 27 species, type: *R. globospora* G.L. Barron, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Roumegueria (Sacc.) Henn. 1908, *Dothideomycetes* genera *incertae sedis*, one species, type: *R. goudotii* (Lév.) Sacc. ex Clem. & Shear, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Roumegueriella Speg. 1880, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *R. muricospora* Speg., asexual morph gliocladium-like, coprophilous, saprobes, terrestrial, temperate, see Hirooka et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted),

Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Roussoella Sacc. 1888, *Roussoellaceae*, *Pleosporales*, *Dothideomycetes*, 34 species, type: *R. nitidula* Sacc. & Paol., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ahmed et al. (2014b; new species, opportunistic pathogens), Crous et al. (2014d, 2015a, 2016b; new species), Liu et al. (2014a; new species, phylogeny), Ariyawansa et al. (2015a; new species), Wijayawardene et al. (2014c, 2016b; taxonomy), Dai et al. (2017; new species, phylogeny), Thambugala et al. (2017b, new species, phylogeny), cultures available for the type: MFLUCC 11-0182, MFLUCC 11-0634.

Roussoëllopsis I. Hino & Katum. 1965, *Roussoellaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *R. japonica* (I. Hino & Katum.) I. Hino & Katum., asexual morph coelomycetous, saprobes, terrestrial, Asia, see Kirk et al. (2013; genus accepted), Liu et al. (2014a; new species, phylogeny), Phookamsak et al. (2014b; phylogeny, epitypifying *R. macrospora*), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type.

Rubikia H.C. Evans & Minter 1985, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *R. samsonii* H.C. Evans & Minter, coelomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available.

Rubrotricha Lücking, Sérus. & Vězda 2005, *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *R. helminthospora* (R. Sant.) Lücking, Sérus. & Vězda, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Rufoplaca Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, six species, type: *R. subpallida* (H. Magn.) Arup, Søchting & Frödén, asexual morph unknown, lichenized, terrestrial, worldwide, see Gaya et al. (2012; phylogeny), Arup et al. (2013; taxonomy, phylogeny), Diederich et al. (2014; new records), Halıcı et al. (2014b; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Ruggieria Cif. & Montemart. 1958, *Ascomycota* genera *incertae sedis*, one species, type: *R. glaucescens* (Trab.) Cif. & Montemart., coelomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Rugonectria P. Chaverri & Samuels 2011, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *R. rugulosa* (Pat. & Gaillard) Samuels, P. Chaverri & C. Salgado, hyphomycetous asexual morph (cylindrocarpon-like), saprobes, pathogens, terrestrial, pantropical, Japan, Indonesia, see Chaverri et al. (2011; morphology, phylogeny), Lombard et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 126565.

Ruhlandiella Henn. 1903, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *R. berolinensis* Henn., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Rubio et al. (2010; new species), Lantieri et al. (2012; new species, Italy), Kirk et al. (2013; genus accepted), sequence are available for the voucher Mycoflora of Macaronesia 1230 (C) of the type.

Ruptoseptoria Quaedvl., Verkley & Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *R. unedonis* (Roberge ex Desm.) Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, pathogens, terrestrial, France, see Quaedvlieg et al. (2013; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-14645, CBS 355.86.

Rusavskia S.Y. Kondr. & Kärnefelt 2003, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 17 species, type: *R. elegans* (Link) S.Y. Kondr. & Kärnefelt, lichenized, see Arup et al. (2013; taxonomy), Kondratyuk et al. (2013c, 2015; new species), Ahti et al. (2015; new combinations), Halici (2015; new record), Kaźmierska and Kossowska (2016; taxonomy), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Rutola J.L. Crane & Schokn. 1978, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *R. graminis* (Desm.) J.L. Crane & Schokn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology). Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Crous et al. (2015a; typification, phylogeny), isotype of the type: L0054599, cultures and sequences are unavailable.

Rutstroemia P. Karst. 1871 (= *Poculum* Velen. 1934 *fide* Jaklitsch et al. 2016a), *Rutstroemiaceae*, *Helotiales*, *Leotiomycetes*, c. 111 species, type: *R. firma* (Pers.) P. Karst., asexual morph unknown, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; phylogeny), Dougoud (2015; new species), Pärtel et al. (2017; phylogeny), cultures available for the type: KL292.

Ruwenzoria J. Fourn., M. Stadler, Læssøe & Decock 2010, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, eight

species, type: *R. pseudoannulata* J. Fourn., M. Stadler, Laessøe & Decock, asexual morph hyphomycetous (sporothrix- or nodulisporium-like), terrestrial, saprobes, Democratic Republic of Congo, see Stadler et al. (2010c; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), holotype of the type: MUCL 51394, cultures and sequences are available.

Ruzenia Hilber 2002, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *R. spermoides* (Hoffm.) O. Hilber, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Miller et al. (2014; new species, DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), culture available for the type: SMH4655.

Saagaromyces K.L. Pang & E.B.G. Jones 2003, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, four species, type: *S. ratnagiriensis* (S.D. Patil & Borse) K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2015a; new species), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Sabahriopsis Crous & M.J. Wingf. 2015, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. eucalypti* Crous & M.J. Wingf., hyphomycetous, saprobes, Malaysia, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22235, CPC 24957.

Sabalicola K.D. Hyde 1995, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *S. sabalensioides* (Ellis & G. Martin) K.D. Hyde, asexual morph unknown, terrestrial, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype: MUCL 51394, cultures and sequences are unavailable.

Sablicola E.B.G. Jones, K.L. Pang & Vrijmoed 2004, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *S. chinensis* E.B.G. Jones, K.L. Pang & Vrijmoed, asexual morph unknown, on beached driftwood, Guangdong-China, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype of the type: IMI 389302.

Sabuloglossum Hustad, A.N. Mill, Dentinger & P.F. Cannon 2013, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, one species, type: *S. arenarium* (Rostr.) Hustad, A.N. Mill., Dentinger & P.F. Cannon, asexual morph unknown, saprobes, terrestrial, worldwide, see Hustad et al. (2013; taxonomy, phylogeny), holotype of the type: C, no. C-F-70804, sequences are available, NCBI RefSeq: NR_120040, NG_042605.

Saccardia Cooke 1878, *Saccardiaceae*, *Ascomycota* families *incertae sedis*, three species, type: *S. quercina* Cooke, asexual morph unknown, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Saccardinula Speg. 1885, *Trichopeltinaceae*, *Dothideomycetes* families *incertae sedis*, eleven species, type: *S. guaranitica* Speg., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Elsinoaceae*), Kirk et al. (2013; genus accepted), Jayawardena et al. (2014; excluded from *Elsinoaceae* and placed in *Trichopeltinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Saccardoëlla Speg. 1879, *Sordariomycetes* genera *incertae sedis*, 18 species, type: *S. montellica* Speg., asexual morph unknown, terrestrial, saprobes, aquatic, widespread, see Suetrong et al. (2009; molecular), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline).

Saccharata Denman & Crous 2004, *Saccharataceae*, *Botryosphaeriales*, *Dothideomycetes*, 19 species, type: *S. proteae* (Wakef.) Denman & Crous, asexual morph coelomycetous, saprobes, associated with leaf spots, terrestrial, South Africa, see Crous et al. (2008, 2016a, b; new species, morphology, phylogeny), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2017; outline), holotype and ex-type culture of type: K(M) 49510 as *Phyllachora proteae* Wakef., CBS 115206.

Saccharomyces Meyen 1870, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, seven species, type: *S. cerevisiae* Meyen ex E.C. Hansen, asexual reproduction is by multilateral budding, saprophytic, but some strains are of clinical origin, in beer, wine and other alcoholic beverages, grain-based fermented foods, occasionally in soil, tree bark, fruit flies, occasional clinical isolates, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), *Saccharomyces cerevisiae* is a model organism for studies of genetics and molecular biology and was the first eukaryote to have its genome sequence determined.

Saccharomycodes E.C. Hansen 1904, *Saccharomycodaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *S. ludwigii* (E.C. Hansen) E.C. Hansen, asexual reproduction is by bipolar budding on a broad base (bud-fission) and are lemon-shaped (apiculate), saprophytic, in tree exudates, soil, spoiled alcoholic beverages, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus

accepted), Wang et al. (2015a; classification), cultures and sequences are available.

Saccharomycopsis Schiönning 1903, *Saccharomycopsidaceae*, *Saccharomycetales*, *Saccharomycetes*, 15 species, type: *S. capsularis* Schiønning, asexual reproduction is by multilateral budding and production of arthroconidia by some species, saprophytic, on hawthorne fruit, grapes and other fruit, soil of fruit orchards, starchy foods, beetles, tree exudates, tanning fluids, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Saccobolus Boud. 1869, *Ascobolaceae*, *Pezizales*, *Pezizomycetes*, about 27 species, type: *S. kervernii* (P. Crouan & H. Crouan) Boud., asexual morph hyphomycetous, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Ramos et al. (2011; molecular studies), Mungai et al. (2012b; ecology, taxonomy), Kirk et al. (2013; genus accepted), Doveri (2014; taxonomy, keys), Melo et al. (2014; ecology, taxonomy, keys), evolutionary lineages of *Pezizales* has been confirmed and refined by ascus septal ultrastructure, number of nuclei in spores and molecular phylogenetics.

Saccothecium Fr. 1836, *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, two species, type: *S. sepincola* (Fr.) Fr., asexual morph hyphomycetous, terrestrial, Italy, saprobes, terrestrial, Italy, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Li et al. (2016a; new species), cultures available for the type: CBS 278.32.

Sadasivania Subram. 1957, *Ascomycota* genera *incertae sedis*, three species, type: *S. girisa* Subram., hyphomycetous, sexual morph unknown, saprobes, Asia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sagedia Ach. 1809, *Megasporaceae*, *Pertusariales*, *Lecanoromycetes*, three species, type: *S. zonata* Ach., lichenized, see Nordin et al. (2010; reinstated the genus), Lücking et al. (2017a; classification), sequences are available.

Sagediopsis Sacc. ex Vain. 1921, *Adelococcaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *S. tartarina* (Nyl.) Vain., asexual morph unknown, lichenicolous, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sagema Poelt & Grube 1993, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *S. potentillae* Poelt & Grube, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sagenidiopsis R.W. Rogers & Hafellner 1987, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, six species; type: *S. merrotsyi* R.W. Rogers & Hafellner, lichenized, Africa, Asia, see Lumbsch and Huhndorf (2010; outline), Zambare and Christopher (2012; biopharmaceutical potential), Kirk et al. (2013; genus accepted), Ram (2014; new species - Andaman), Ertz et al. (2015b, c; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Sagenomella W. Gams 1978, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, 13 species, type: *S. diversispora* (J.F.H. Beyma) W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Hsieh et al. (2009; new species), Houbraken and Samson (2011; phylogeny), Samson et al. (2011; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 399.69, CBS 398.69.

Sageria A. Funk 1975, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. tsugae* A. Funk, sexual morph unknown, saprobes, Canada, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Sagiolechia A. Massal. 1854, *Sagiolechiaceae*, *Ostropales*, *Lecanoromycetes*, nine species, three varieties, three forma species, type: *S. protuberans* (Ach.) A. Massal., asexual morph unknown, lichenized, terrestrial, Europe, see Baloch et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Gomphillaceae*), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), cultures available for the type: AFTOL-ID 4896.

Saitoella S. Goto, Sugiyama, Hamamoto & Komagata 1987, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, two species, type: *S. complicata* Goto, Sugiyama, Hamamoto & Komagata, asexual reproduction is mainly by multipolar enteroblastic budding, saprophyte, soil, insect frass, Bhutan, western USA, see Kirk et al. (2013; genus accepted), cultures and sequences are available.

Sakireeta Subram. & K. Ramakr. 1957, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *S. madreeya* Subram. & K. Ramakr., coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, India, see Crous et al. (2015b; reinstated the genus, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Salsuginea K.D. Hyde 1991, *Salsugineaceae*, *Pleosporales*, *Dothideomycetes*, one species, type:

S. ramicola K.D. Hyde, asexual morph unknown, saprobes, marine, worldwide, see Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b, 2015; classification), Alias et al. (2010; diversity), Zainuddin et al. (2010; antimicrobial activity), Zhang et al. (2012e; phylogeny, morphology), Hyde et al. (2013; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype of type: BRIP 17102, cultures and sequences are available.

Samarospora Rostr. 1892, *Eurotiomycetidae* genera *incertae sedis*, one species, type: *S. potamogetonis* Rostr., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sambucina Velen. 1947, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. aculeata* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Samuelsia P. Chaverri & K.T. Hodge 2008, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *S. rufobrunnea* Chaverri & K.T. Hodge, asexual morph coelomycetous (aschersonia-like), saprobes, on insects, terrestrial, Bolivia, Thailand, see Chaverri et al. (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Mongkolsamrit et al. (2011; new species), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: CUP 067858, cultures and sequences are available.

Sandersoniomyces R.K. Benj. 1968, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. divaricatus* R.K. Benj., asexual morph unknown, biotrophic on Coleoptera, Staphylinidae (*Quedius* sp.), America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sanguinotrema Lücking 2015, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *S. rightii* (Taylor) Lücking, asexual morph unknown, lichenized, terrestrial, tropical, see Lücking et al. (2017a; phylogeny, classification), cultures and sequences are unavailable.

Santessonia Hale & Vobis 1978, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, ten species, type: *S. namibensis* Hale & Vobis, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Physciaceae*), Gaya et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sapucchaka K. Ramakr. 1956, *Dothideomycetes* genera *incertae sedis*, two species, type: *S. madreeya* K. Ramakr., asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Sarcinella Sacc. 1880 (= *Schiffnerula* Höhn. 1909; = *Questieriella* G. Arnaud ex S. Hughes 1983 *fide* Rossman et al. 2016a), *Englerulaceae*, *Dothideomycetes* genera *incertae sedis*, 71 species type: *S. heterospora* Sacc., schiffnerulaceous fungi, *Questieriella*, *Digitosarcinella* and *Mitteriella* synanamorphs of *Schiffnerula*, saprobes, plant pathogens, terrestrial, worldwide. see Hosagoudar and Riju (2009, 2011; morphology), Hosagoudar et al. (2010b, 2011b; new species), Hosagoudar et al. (2010b, 2011a, b; Schiffnerulaceous fungi), Soni et al. (2011; neem disease) Singh and Singh (2012; new species), Bhise et al. (2014; new species), Dai et al. (2014c; family description), Rossman et al. (2016a; nomenclature), sequences are unavailable.

Sarcinomyces Lindner 1898, *Eurotiomycetes* genera *incertae sedis*, five species, type: *S. crustaceus* Lindner, sexual morph unknown, saprobes, plant and animal pathogen, terrestrial, worldwide, see Ruibal et al. (2008, 2009; phylogeny, ecology), Tsuneda et al. (2011b; phylogeny), Muggia et al. (2013; lichen connection), Nagano et al. (2014; deep sea), sequences are available.

Sarcinosporon D.S. King & S.C. Jong 1975, *Ascomycota* genera *incertae sedis*, one species, type: *S. inkin* (Oho) D.S. King & S.C. Jong, hyphomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sarcoexcipula Etayo 2008, *Ascomycota* genera *incertae sedis*, one species, type: *S. pannariae* Etayo, asexual morph unknown, parasymbiont on *Pannaria*, terrestrial, South America, see Etayo and Sancho (2008; morphology, distinction of similar lichenicolous genera), holotype of the type: MAF Etayo 23100, cultures and sequences are unavailable.

Sarcographa Fée 1921, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, c. 40 species, type: *S. cinchonarum* Fée, asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2012a; classification), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted). Lücking et al. (2017a; classification); sequences are available.

Sarcographina Müll. Arg. 1887, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, eight species, type: *S. cyclospora* Müll. Arg., asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2012a; classification), Kirk et al. (2013; genus accepted),

Kraichak et al. (2014; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Sarcogyne Flot., 1851, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, 88 species, 38 varieties, two subspecies, 32 forma species, type: *S. corrugata* Flot., asexual morph unknown, terrestrial, terricolous, saxicolous, crustose, squamulose, America, Australia, Japan, Turkey, see Knudsen et al. (2009b, 2013a; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Knudsen and Kocourková (2012; neotypification), McCarthy and Kantvilas (2013b; new species), Tokizawa et al. (2015; new species), Westberg et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Sarcoleotia S. Ito & S. Imai 1934, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, one species, type: *S. nigra* S. Ito & S. Imai, asexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; phylogeny, accepted as a genus in *Rutstroemiaceae*), Hustad et al. (2013; taxonomy, phylogeny), sequences are available but lacking for type.

Sarcomyces Massee 1891, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. vinosus* Massee, asexual morph unknown, saprobes, America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as a synonym of *Haematomyxa* Sacc. in *Patellariales*), cultures and sequences are unavailable.

Sarconiptera Raitv. 2003, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *S. vinacea* Raitv., asexual morph unknown, saprobes, terrestrial, Greenland, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2016a; classification), holotype of the type: TAA 137803, cultures and sequences are unavailable.

Sarcophoma Höhn. 1916, *Ascomycota* genera *incertae sedis*, three species, type: *S. endogenospora* Höhn., asexual morph unknown, saprobes, widespread, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sarcopodium Ehrenb. 1818 (= *Lanatonectria* Samuels & Rossman 1999; *Actinostilbe* Petch 1925 *fide* Rossman et al. 2016a), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 14 species, type: *S. circinatum* Ehrenb., hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Lombard et al. (2015b; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures available for the type: CBS 587.92.

Sarcopyrenia Nyl. 1858, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. gibba* Nyl., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sarcosagium A. Massal. 1856, *Thelocarpaceae*, *Thelocarpales*, *Ascomycota* orders *incertae sedis*, one species, type: *S. biatorellum* A. Massal., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Sarcoscypha (Fr.) Boud. 1885 (= *Molliardiomyces* Paden 1984 *fide* Healy et al. 2016), *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, c. 30 species, type: *S. coccinea* (Jacq.) Sacc., asexual morph formerly named in *Molliardiomyces*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Romero et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Wang et al. (2016e; new species), cultures available for the type: AFTOL-ID 930 (unpublished).

Sarcosoma Casp. 1891, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, five species, type: *S. globosum* (Schmidel) Casp., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Sarcosphaera Auersw. 1869, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *S. macrocalyx* (Riess) Auersw., asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Romero et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Sarcostroma Cooke 1871, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, 28 species, type: *S. berkeleyi* Cooke, asexual morph coelomycetous, sexual morph unknown, saprobes, endophytes, foliar pathogens in tropical and temperate regions, see Maharachchikumbura et al. (2015b, 2016b; outline), Norphanphoun et al. (2015; phylogeny), need generic revision.

Sarcotrochila Höhn. 1917, *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *S. alpina* (Fuckel) Höhn., asexual morph unknown, saprobes, terrestrial, North America, Europe, see Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available but lacking for the type.

Sarcoxylon Cooke 1883, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *S. compunctum* (Jungh.) Cooke, asexual morph unknown, terrestrial, saprobes, Asia, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline),

Senanayake et al. (2015; DNA, phylogeny), cultures and sequences are available.

Sardiniella Linaldeddu, A. Alves & A.J.L. Phillips 2016, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, nine species, type: *S. urbana* Linaldeddu, A. Alves & A.J.L. Phillips, coelomycetous, sexual morph unknown, pathogens, terrestrial, Italy, see Linaldeddu et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: LISE 96308, CBS 141580 = BL179.

Sarea Fr. 1825, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, two species, type: *S. difformis* (Fr.) Fr., asexual morph unknown, on resins, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; reinstated the genus), Kirk et al. (2013; genus accepted), Sanz-Ros et al. (2015; DNA, phylogeny), Burneviča et al. (2016; DNA), Lücking et al. (2017a; classification), cultures and sequences are available.

Sarimanas M. Matsum., K. Hiray. & Kaz. Tanaka 2015, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *S. shirakamiense* Matsumura, K. Hiray. & Kaz. Tanaka, asexual morph unknown, saprobes, terrestrial, Japan, see Liu et al. (2015a; morphology, phylogeny), Tian et al. (2015; phylogeny), holotype and ex-type of the type: HHUF 30454, MAFF 244768.

Sarocladium W. Gams & D. Hawksw. 1976, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, eight species, type: *S. oryzae* (Sawada) W. Gams & D. Hawksw., hyphomycetous, sexual morph unknown, on plants, isolated from soil, human tissues, widespread, terrestrial, see Seifert et al. (2011; genus accepted), Summerbell et al. (2011; phylogeny and circumscription), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; position), cultures and sequences are available, holotype of type: TAI.

Sarrameana Vězda & P. James 1973, *Sarrameanaceae*, *Sarrameanales*, *Lecanoromycetes*, three species, type: *S. paradoxa* Vězda & P. James, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sartorya Vuill. 1927, *Sordariomycetes*, genera *incertae sedis*, one species, type: *S. fumigata* Vuill., see Kirk et al. (2008; treated as nom. dub.), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline).

Satchmopsis B. Sutton & Hodges 1975, *Ascomycota* genera *incertae sedis*, one species, type: *S. brasiliensis* B. Sutton & Hodges, coelomycetous, sexual morph unknown, saprobes, terrestrial, widespread, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Sativumoides S.C. Ren, Jian Ma & X.G. Zhang 2012, *Ascomycota* genera *incertae sedis*, one species, type: *S. punicae* S.C. Ren, Jian Ma & X.G. Zhang, hyphomycetous, saprobes, terrestrial, China, see Ren et al. (2012a; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Saturnispora Liu & Kurtzman 1991, *Pichiaceae*, *Saccharomycetales*, *Saccharomycetes*, 20 species, type: *S. dispora* (Dekker) Z.W. Liu & Kurtzman, asexual reproduction is by multilateral budding, saprophytic, in plant rhizosphere in salt marsh, tree exudates, grapes, fruit flies, sauerkraut, soil, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), many species in this genus represent asexual taxa originally classified in the genus *Candida*, but have been transferred to the genus *Saturnispora* as new combinations, cultures and sequences are available.

Savoronala Ertz, Eb. Fisch., Killmann, Razafindr. & Sérus. 2013, *Malmideaceae*, *Lecanorales*, *Lecanoromycetes*, one species; type: *S. madagascariensis* Ertz, Eb. Fisch., Killmann, Razafindr. & Sérus., lichenized, see Ertz et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Savoryella E.B.G. Jones & R.A. Eaton. 1969, *Savoryellaceae*, *Savoryellales*, *Sordariomycetes*, ten species, type: *S. lignicola* E.B.G. Jones & R.A. Eaton, asexual morph unknown, saprobes, freshwater and marine, Australia, Brunei, China, Hong Kong, India, Japan, Malaysia, Mauritius, Mexico, Philippines, South Africa, Thailand, Taiwan, UK, see Dethoup and Manoch (2009; diversity), Kurniawati et al. (2010; diversity), Alias et al. (2010; diversity), Boonyuen et al. (2011; outline, phylogeny, morphology, classification), Awaluddin et al. (2015; diversity), Jones et al. (2016; monograph, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available, holotype of type: IMI 129784.

Savulescua Petr. 1959, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, type: *S. insignis* Petr., asexual morph unknown, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are unavailable.

Sawadaea Miyabe 1914, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, ten species, type: *S. bicornis* (Wallr. : Fr.) Homma, sexual and hyphomycetous asexual morphs, biotrophic, obligate plant pathogens, terrestrial, worldwide, see Takamatsu et al. (2008c; phylogeny and taxonomy of *S. nankinensis*), Lumbsch and Huhndorf

(2010; outline), Braun and Cook (2012; taxonomy), Kirk et al. (2013; genus accepted), sequences are available.

Saxomyces Selbmann & Isola, For diagnosis see Fungal Diversity 65(1): 174 2014, *Dothideomycetes*, genera *incertae sedis*, two species, hyphomycetous, type: *Saxomyces alpinus* Zucconi & Selbmann, sexual morph unknown, rock-inhabiting fungus. From granite, Val de La Mare, Passo Stelvio, Alps, Italy; CCFEE 5470. culture preserved in liquid nitrogen and in dried condition (NCBI accession numbers: KC315861 (SSU), KC315872 (LSU), KC315883 (mtSSU), taxonomic species delimitation supported by molecular data.

Notes: The genus *Saxomyces* was invalidly published because the type: *S. alpinus* was invalidly published [ICN (Melbourne) Art. 40.6.

The genus and the type are here validated as follows:

***Saxomyces* Selbmann & Isola gen. nov.,** MB819855. For diagnosis see Fungal Diversity 65(1): 174 (2014).

Type: *Saxomyces alpinus* Zucconi & Selbmann sp. nov., MB819851. For diagnosis see Fungal Diversity 65(1): 174 (2014). Holotype: CBS 135222. From granite, Val de La Mare, Passo Stelvio, Alps, Italy; =CCFEE 5470, cultures and sequences available.

Additional species: *Saxomyces penninicus* Zucconi & Onofri. For diagnosis see Fungal Diversity 65(1): 175 (2014). From sandstone, Punta Indren, Monte Rosa, Alps, Italy; CCFEE 5495. culture preserved in dried condition (NCBI accession numbers: KC315864 (SSU), KC315875 (LSU), KC315886 (mtSSU)), taxonomic species delimitation supported by molecular data. The species was invalidly published because the type: *S. alpinus* was invalidly published [ICN (Melbourne) Art. 40]. It is here validated as follows:

Saxomyces penninicus* Zucconi & Onofri *sp. nov, MB819852. For diagnosis see Fungal Diversity 65(1): 175 (2014). From rock, Punta Indren, Monte Rosa, Alps, Italy. Holotype: CBS H-22053 (exiccatum) = CCFEE 5495.

Saxophila Selbmann & de Hoog 2016, *Extremaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *S. tyrrhenica* Selbmann & de Hoog, hyphomycetous, sexual morph unknown, rock-inhabiting, Italy, Spain, see Isola et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), type: CBS 139725 = CCFEE 5935, cultures and sequences available.

Suttoniella S. Ahmad 1961, *Ascomycota* genera *incertae sedis*, three species, type: *S. gaubae* (Petr.) S. Ahmad, coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, tropical, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Scalenomyces I.I. Tav. 1985, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. endogaeus* (F. Picard) I.I. Tav., asexual morph unknown, parasites, Sardinia, see Lumbsch and Huhndorf (2010; outline), Rossi (2010; new species), Kirk et al. (2013; genus accepted), sequences and culture unavailable.

Scaphidiomyces Thaxt. 1912, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, five species, type: *S. baeocerae* Thaxt., asexual morph unknown, biotrophic on Coleoptera (Scaphidiinae), South America, West Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scaphidium Clem. 1901, *Ascomycota* genera *incertae sedis*, one species, type: *S. boutelouae* Clem., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available.

Scedosporium Sacc. ex Castell. & Chalm. 1919, *Microascaceae*, *Microascales*, *Sordariomycetes*, seven species, type: *S. apiospermum* Sacc. ex Castell. & Chalm., hyphomycetous, sexual morph unknown, saprobes, human pathogen, terrestrial, worldwide, see Gilgado et al. (2008; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lackner et al. (2014; new species), Vandeputte et al. (2014; genome study), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Crous et al. (2016a; taxonomy, phylogeny), cultures available for the type: IHEM 14462.

Scelophoromyces Thaxt. 1912, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. osorianus* Thaxt., asexual morph unknown, biotrophic on Coleoptera (Staphylinidae, *Osorius* sp.), South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scepastocarpus Santam. 2004, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. peritheciiformis* Santam., asexual morph unknown, biotrophic on aquatic Coleoptera (Hydrophilidae, *Hydrochus* sp.), Spain, see Lumbsch and Huhndorf (2010; outline), related to *Zodiomyces* Thaxt., cultures and sequences are unavailable.

Sceptrifera Deighton 1965, *Ascomycota* genera *incertae sedis*, one species, type: *S. pulchra* Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schadonia Körb. 1859, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *S. alpina* Körb., asexual morph unknown, lichenized, terrestrial, see Ekman et al. (2008; molecular), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), culture and sequences are unavailable for type.

Schaereria Th. Fr. 1855, *Schaereriaceae*, *Sarrameanales*, *Lecanoromycetes*, 16 species, type: *S. lugubris* (A. Massal.) Körb., lichenized, Africa, Europe, Asia, see Kukwa and Flakus (2009; taxonomy), Lewis Smith (2009; taxonomy), Spribille et al. (2009; taxonomy, new species), Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Schmull et al (2011; phylogeny), Kirk et al. (2013; genus accepted), Resl et al. (2015; phylogeny), Tarasova et al. (2016; ecology), Lücking et al. (2017a; classification), sequences are available.

Scharifia Petr. 1955, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. procumbens* Petr., asexual morph unknown, saprobes, terrestrial, Iran, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Scheffersomyces Kurtzman & M. Suzuki 2010, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *S. stipitis* (Pignal) Kurtzman & M. Suzuki, asexual reproduction is by multilateral budding, saprophytic, in beetles and beetle larvae in various trees, rotted wood, one species (*S. spartinae*) was isolated from oyster grass (*Spartina alterniflora*) marshes, worldwide, see Kurtzman and Suzuki (2010; taxonomy), *S. stipitis* (formerly *Pichia stipitis*) and *S. shehatae* (formerly *Candida*) are important for biomass utilization because of their ability to ferment D-xylose, cultures and sequences are available.

Schenckiella Henn. 1893 (= *Allothyrium* Syd. 1939 *fide* Hongsanan et al. 2014c), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, one species, type: *S. marcgraviae* Henn., asexual morph unknown, epiphytes, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline; accepted as a genus in *Saccardiaceae*), Hongsanan et al. (2014c; taxonomy, keys, nomenclature, accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline), placement in *Asterinaceae* supported by morphology, cultures and sequences are unavailable.

Schiffnerula Höhn. 1909, *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, 98 species, type: *S. mirabilis* Höhn. 1909, asexual morph hyphomycetous, epiphytes, pathogens, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Dai et al. (2014c; morphology), cultures and sequences are unavailable, type specimen need recollect and sequence.

Schismatomma Flot. & Körb. ex A. Massal. 1852, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, ten species, type: *S. pericleum* (Ach.) Branth & Rostr., Asia, North America, Europe, see Hauck and Wirth (2010; ecology), Kocourková et al. (2010; taxonomy), Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011; phylogeny), Stepanchikova et al. (2011; new records), Kirk et al. (2013; genus accepted), Tehler et al. (2013a; phylogeny), Lendemer and Harris (2014; taxonomy), Himelbrant et al. (2016; new records), London (2016; new record), Motiejūnaitė et al. (2016; new records), Lücking et al. (2017a; classification), sequences are available.

Schistophoron Stirt. 1876, *Graphidaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *S. tenue* Stirt., Asia, see Tehler et al. (2009a; systematic study), Lumbsch and Huhndorf (2010; outline), Singh and Swarnalatha (2011; new species), Rivas Plata et al. (2012a; classification), Lücking et al. (2013; molecular phylogeny), Prieto et al. (2012; classification), Kirk et al. (2013; genus accepted), Weerakoon and Aptroot (2016; new species from Sri Lanka), sequences are available.

Schizochora Syd. & P. Syd. 1913, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *S. elmeri* Syd. & P. Syd., from living leaves, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Schizodiscus Brusse 1888, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *S. afroalpinus* Brusse, subpolar region, see Lumbsch and Huhndorf (2010; outline), Hertel (2014; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Schizopelte Th. Fr. 1875, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *S. californica* Th. Fr., lichenized, see Lumbsch and Huhndorf (2010; outline), Ertz, and Tehler (2011; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Schizosaccharomyces Lindner 1893, *Schizosaccharomycetaceae*, *Schizosaccharomycetales*, *Schizosaccharomycetes*, four species, type: *S. pombe* Lindner, asexual reproduction is by fission, saprophytic, fruit wines and fruit, honey, dried figs, sugar cane molasses, tree fluxes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Schizothecium Corda 1838, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *S. fimicola* Corda, asexual morph unknown, on dung,

terrestrial, Spain, see Chang et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariales* genera *incertae sedis*), Mungai et al. (2012f; from dung), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Schizothyra Bat. & C.A.A. Costa 1957, *Ascomycota* genera *incertae sedis*, one species, type: *S. minuta* Bat. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, terrestrial, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schizothyrella Thüm. 1880, *Ascomycota* genera *incertae sedis*, one species, type: *S. quercina* (Lib.) Thüm., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schizothyrioma Höhn. 1917, *Dermateaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *S. ptarmicae* (Desm.) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schizothyrium Desm. 1849 (= *Zygophiala* E.W. Mason 1945 *fide* Rossman et al. 2015b, *Schizothyriaceae*, *Dothideomycetes* families *incertae sedis*, five species, type: *S. acerinum* Desm., asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013, accepted as a genus in *Schizothyriaceae*), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c; outline), Hongsanan et al. (2016c; evolution), Phookamsak et al. (2016; taxonomy), cultures and sequences are available.

Schizothyropsis Bat. & A.F. Vital 1960, *Ascomycota* genera *incertae sedis*, one species, type: *S. citri* Bat. & A.F. Vital., coelomycetous, sexual morph unknown, saprobes, terrestrial, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schizotrema Mangold & Lumbsch 2009, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 13 species, type: *S. zebrinum* Mangold, asexual morph unknown, lichenized, terrestrial, tropical, see Kalb et al. (2009; new report), Rivas Plata et al. (2010a; key), Sipman et al. (2012; key), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Schizotrichum McAlpine 1903, *Ascomycota* genera *incertae sedis*, one species, type: *S. lobeliae* McAlpine, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schizoxylon Pers. 1811, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *S. sepincola* Pers., Asia, see Lumbsch and Huhndorf (2010; outline), Muggia et al. (2011a; partial sequence), Kirk et al. (2013; genus accepted), Konoreva et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Schnablia Sacc. & P. Syd. 1899, *Leotiomycetes* genera *incertae sedis*, one species, type: *B. schnablianum* Rehm, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Schrakia Hafellner 1979, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, two species, type: *S. crassula* (Starbäck) Hafellner, asexual morph unknown, saprobes, South and North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schroeteria G. Winter 1881, *Ascomycota* genera *incertae sedis*, one species, type: *S. delastrina* (Tul. & C. Tul.) G. Winter, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schwanniomyces Klöcker emend. M. Suzuki & Kurtzman 2010, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, eight species, type: *S. occidentalis* Klöcker, asexual reproduction is by multilateral budding, saprophytic, soil, tree exudates, cucumber brines, fruit flies, human faeces, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kurtzman and Suzuki (2010; revision), cultures and sequences are available.

Schwarzmannia Pisareva 1968, *Ascomycota* genera *incertae sedis*, one species, type: *S. goebeliae* Pisareva, coelomycetous, sexual morph unknown, saprobes, terrestrial, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Schweinitziella Speg. 1888, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, three species, type: *S. styracum* Speg., asexual morph unknown, fungicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Scirrhia Nitschke ex Fuckel 1870, *Dothideomycetes* genera *incertae sedis*, ten species, type: *S. rimosa* (Alb. & Schwein.) Fuckel, asexual morph unknown, saprobes,

pathogens, terrestrial, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Crous et al. (2011b; phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes* genera *incertae sedis*), cultures and sequences are available but lacking for the type.

Scirrhophoma Petr. 1941, *Ascomycota* genera *incertae sedis*, one species, type: *S. dothideoides* (Mont.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sclerococcum Fr. 1825, *Dactylosporaceae*, *Eurotiomycetes* families *incertae sedis*, 18 species, type: *S. sphaerale* (Ach.) Fr., hyphomycetous, sexual morph unknown, saprobes, lichenicolous, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Scleroconidioma Tsuneda, Currah & Thormann 2000, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. sphagnicola* Tsuneda, Currah & Thormann, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), cultures available for the type: UAMH 9731.

Sclerocrana Samuels & L.M. Kohn 1987, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, four species, type: *S. atra* Samuels & L.M. Kohn, asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sclerographiopsis Deighton 1973, *Ascomycota* genera *incertae sedis*, one species, type: *S. dalbergiae* Deighton, hyphomycetous, sexual morph unknown, saprobes, Africa, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sclerographium Berk. 1854, *Ascomycota* genera *incertae sedis*, three species, type: *S. aterrimum* Berk., hyphomycetous, sexual morph unknown, saprobes, Africa, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scleromeris Syd. 1926, *Ascomycota* genera *incertae sedis*, three species, type: *S. guazumae* Syd., coelomycetous, sexual morph unknown, saprobes, Central America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scleromitrula S. Imai 1941, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *S. shiraiana* (Henn.) S. Imai, asexual morph unknown, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; phylogeny, strains of type were grouped in *Rutstroemiaceae* and *Sclerotiniaceae*).

Scleropezicula Verkley 1999 (= *Cryptosympodula* Verkley 1999 *fide* Johnston et al. 2014b), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *S. alnicola* (J.W. Groves) Verkley, asexual morph formerly known in *Cryptosympodula*, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Sclerophoma Höhn. 1909, *Ascomycota* genera *incertae sedis*, 30 species, type: needs typification, coelomycetous, sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sclerophora Chevall. 1826, *Coniocybaceae*, *Coniocybales*, *Coniocybomycetes*, six species; type: *S. furfuracea* (L.) Chevall., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Suija et al. (2016; phylogeny), sequences are available.

Sclerophyton Eschw. 1824, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, 14 species, (probably less, needs revision), type: *S. elegans* Eschw., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Ertz. and Tehler (2011; phylogeny, molecular), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available

Scleropycnis Syd. & P. Syd. 1911, *Ascomycota* genera *incertae sedis*, two species, type: *S. abietina* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scleropyrenium H. Harada 1993, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, two species, type: *S. japonicum* H. Harada, asexual morph unknown, lichenized, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Prieto et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sclerostagonospora Höhn. 1917, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, eight species, type: *S. heraclei* (Sacc.) Höhn., coelomycetous, sexual morph

unknown, saprobes, terrestrial, cosmopolitan, see Crous et al. (2011a, 2016b; new species, phylogeny), Quaedvlieg et al. (2013; new species, phylogeny), Wijayawardene et al. (2016b, 2017; taxonomy, outline, phylogeny), cultures are available.

Sclerotinia Fuckel 1870, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, 15 species, type: *S. libertiana* Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; phylogeny), cultures and sequences are available.

Sclerotium Tode 1790, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, c. 100 species (probably more than this), type: *S. complanatum* Tode, hyphomycetous, sexual morph unknown, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for type.

Sclerozythia Petch 1937, *Ascomycota* genera *incertae sedis*, one species, type: *S. brassicae* Petch, coelomycetous, sexual morph unknown, saprobes, British Isles, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scolecobasidiella M.B. Ellis 1971, *Ascomycota* genera *incertae sedis*, two species, type: *S. avellanea* (Sappa & Mosca) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, Africa, Caribbean, see Shenoy et al. (2010; DNA), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available.

Scolecobasidium E.V. Abbott 1927, *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, 64 species, type: *S. terreum* E.V. Abbott, sexual stage unknown, animal pathogens, saprobes, terrestrial, aquatic, worldwide, see Hamada and Niichiro (2008; bathroom), Jiang and Zhang (2008; new species), Wu and Zhang 2008; China, soil), Hamayun et al. (2009; growth enhancement in plant), Abe and Hamada (2011; detergent rich environment), Punithalingam and Spooner (2011a; new species), Ge et al (2012; human pathogen), Muthukrishnan et al. (2012; alkalotolerance in scrub forest), D'Souza and Bhat (2013; litter and endophyte), Hao et al. (2013; new species), Ren et al. (2013a; new species), Samerpitak et al. (2014; phylogeny, taxonomy, classification), Garzoli et al. (2015; marine), Hou et al. (2015; corals), Oliveira et al. (2016a; drinking water, Brazil), Pundhir et al. (2016; pneumonia), Shi et al. (2016; human pathogen), sequences are available, ex type of type: CBS 203.27.

Scolecobeltrania Iturr., R.F. Castañeda & R. Fernández 2013, *Ascomycota* genera *incertae sedis*, one species, type: *S. vermispora* Iturr., R.F. Castañeda & R. Fernández, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Venezuela, see Iturriaga et al. (2013; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Scolecobonaria Bat. 1962, *Dothideomycetes* genera *incertae sedis*, two species, type: *S. filiformis* (W. Yamam.) Bat., asexual morph unknown, saprobes, terrestrial, Taiwan, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Scolecodochium K. Matsush. & Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *S. malayense* K. Matsush. & Matsush., hyphomycetous, sexual morph unknown, saprobes, Malaysia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scolecopeltidium F. Stevens & Manter 1925, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, c. 80 species, type: *S. salacensis* (Racib.) F. Stevens & Manter, asexual morph unknown, epiphytes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Wu et al. (2011; taxonomy), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Scolecosporiella Petr. 1921, *Ascomycota* genera *incertae sedis*, six species, type: *S. typhae* (Oudem.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scolecostigmina U. Braun 1998, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 25 species, type: *S. mangiferae* (Koord.) U. Braun & Mouch., hyphomycetous, plant pathogens, leaf spotting, Africa, Asia, Australia, North and South America, Oceania, West Indies, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Crous et al. (2012a; phylogeny), Braun et al. (2014b; taxonomy), cultures available for the type: CBS 125467, holotype of type species: Indonesia, Java, Prov. Kedu, Purworedjo, on *Mangifera indica*, 21 Sep. 1905, S.H. Koorders, no. 6, ser. 5 (unknown).

Scolecotheca Søchting & B. Sutton 1997, *Ascomycota* genera *incertae sedis*, one species, type: *S. cornuta* Søchting & B. Sutton, coelomycetous, sexual morph unknown, saprobes, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scolecoxyphium Cif. & Bat. 1956, *Dothideomycetes* genera *incertae sedis*, four species, type: *S. fraserae* Cif. &

Bat., coelomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scolecozythia Curzi 1927, *Ascomycota* genera *incertae sedis*, one species, type: *S. valsivora* Curzi, coelomycetous, sexual morph unknown, saprobes, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scoliciosporum A. Massal. 1852, *Scoliciosporaceae*, *Lecanorales*, *Lecanoromycetes*, 15 species; type: *S. holomelaeum* (Flörke) A. Massal., lichenized, see Spribille et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Kukwa et al. (2012; new records: Poland), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Scolicosporium Lib. ex Roum. 1880, ?*Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 13 species, type: *S. fagi* Lib. ex Roum., coelomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011; treated as hyphomycetous), Wijayawardene et al. (2012, 2013b, 2016b; outline, treated as coelomycetous, phylogeny, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Scoliocarpon Nyl. 1858, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. pupula* (Tuck.) Nyl., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Scolionema Theiss. & Syd. 1918, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *S. palmarum* (Kunze & Fr.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Perisporiopsidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Scoliotidium Bat. & Cavalc. 1963, *Ascomycota* genera *incertae sedis*, one species, type: *S. lauracearum* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scopaphoma Dearn. & House 1925, *Ascomycota* genera *incertae sedis*, one species, type: *S. corioli* Dearn. & House, coelomycetous, sexual morph unknown, saprobes, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scopinella Lév. 1846, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, nine species, type: *S. pleiospora* (J. Schröt.) Sacc., asexual morph unknown, saprobes, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Hypocreales*, genera incertae sedis), Kirk et al. (2013; genus accepted), Sánchez et al. (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Scopulariella Gjaerum 1971, *Ascomycota* genera *incertae sedis*, one species, type: *S. vaccinii* Gjaerum, hyphomycetous, sexual morph unknown, saprobes, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scopulariopsis Bainier 1907, *Microascaceae*, *Microascales*, *Sordariomycetes*, 32 species, type: *S. brevicaulis* (Sacc.) Bainier, hyphomycetous, sexual morph unknown, from soil, saprobes, human pathogen, terrestrial, worldwide, see Seifert et al. (2011; morphology), Iwen et al. (2012; human pathogen, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Pan et al. (2014; new species, China), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Grum-Grzhimaylo et al. (2016; DNA), cultures available for the type: UAMH 10915.

Scoriadopsis J.M. Mend. 1930, *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *S. miconiae* J.M. Mend., asexual morph unknown, epiphytes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2011; taxonomy), Hyde et al. (2013; accepted as a genus in *Capnodiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Scorias Fr. 1832, *Capnodiaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *S. spongiosa* (Schwein.) Fr., asexual morph unknown, epiphytes, terrestrial, tropical, see Crous et al. (2009d; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2011; taxonomy), Hyde et al. (2013; accepted as a genus in *Capnodiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Scortechinia Sacc. 1891, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, eight species, type: *S. culcitella* (Berk. & Ravenel) Speg., asexual morph unknown, saprobes, cosmopolitan, see Mugambi and Huhndorf (2010; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Scortechiniella Arx & E. Müll. 1954, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *S. similis* (Bres.) Arx & E. Müll., asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Nitschkia*), Mugambi and Huhndorf (2010; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Scortechiniellopsis Sivan. 1974, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *S. leonensis* Sivan., asexual morph unknown, saprobes, cosmopolitan, see Mugambi and Huhndorf (2010; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Scothelius Bat., J.L. Bezerra & Cavalc. 1965, *Ascomycota* genera *incertae sedis*, one species, type: *S. guianensis* Bat., J.L. Bezerra & Cavalc., coelomycetous, sexual morph unknown, saprobes, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scotiosphaeria Sivan. 1977, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. endoxylinae* Sivan., asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sculptolumina Marbach 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, three species, type: *S. japonica* (Tuck.) Marbach, asexual morph unknown, lichenized, terrestrial, see Giralt et al. (2009; taxonomy), Joshi et al. (2010a; new record, taxonomy), Lumbsch and Huhndorf (2010; outline), Giralt et al. (2014; taxonomy), Kondratyuk (2015; new records), Lücking et al. (2017a; classification), sequences are unavailable.

Scutaria Søchting, Arup & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *S. andina* (Räsänen) Søchting, Frödén & Arup., lichenized, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Scutellinia (Cooke) Lambotte 1887, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 75 species, type: *S. scutellata* (L.) Lambotte, asexual morph unknown, from soil, saprobes, terrestrial, Europe, see Zhuang and Yang (2008; new species), Han et al. (2010a; new species, Korea), Lumbsch and Huhndorf (2010; outline), Zhuang (2010; new species), Choi et al. (2013b; new species), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Zhuang (2013; new species, key to species in China), cultures and sequences are available but lacking for the type.

Scutisporus Ando & Tubaki 1985, *Ascomycota* genera *incertae sedis*, one species, type: *S. brunneus* K. Ando & Tubaki, hyphomycetous, saprobes, terrestrial, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Fiuza et al. (2015a; taxonomy), holotype of type: TKB-F-5093, cultures and sequences are unavailable, compare with *Biflagellosporella*.

Scutobelonium Graddon 1984, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *S. amorilens* Graddon, asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Scutomollisia Nannf. 1976, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, 14 species, type: *S. punctum* (Rehm) Nannf., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scutopeltis Bat. & H. Maia 1957, *Ascomycota* genera *incertae sedis*, two species, type: *S. alafiae* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, Ghana, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scutopycnis Bat. 1957, *Ascomycota* genera *incertae sedis*, two species, type: *S. osmanthi* Bat., coelomycetous, sexual morph unknown, saprobes, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scutula Tul. 1852, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 41 species, two subspecies, three varieties, four forma species, type: *S. wallrothii* Tul., asexual morph unknown, lichenicolous, see Egan (2009; recent literature), Etayo and Triebel (2010; new records), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Pino-Bodas et al. (2017; new species, phylogeny), cultures and sequences are unavailable.

Scutulopsis Velen. 1934, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. pinacea* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Scyphospora L.A. Kantsch. 1928, *Apiosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *S. phyllostachydis* L.A. Kantsch., coelomycetous, sexual morph apiospora-like, saprobes, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; taxonomy,

outline), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), probably a synonym of *Arthrinium* Kunze, cultures and sequences are unavailable.

Scytalidium Pesante 1957, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 23 species, type: *S. lignicola* Pesante, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Russia, Chile, Siberia, see Kang et al. (2010; new species), Wu and Zhang (2010; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Gautam et al. (2015; new species, India), ex-type culture available for the type: UAMH 1502, needs generic revision as genus is heterogenous (fide Seifert et al. 2011).

Scytinium (Ach.) Gray 2014, *Collemataceae*, *Lecanorales*, *Lecanoromycetes*, 48 species; type: *S. palmatum* (Huds.) Gray, lichenized, see Otálora et al. (2013, 2014; taxonomy, new combination), Diederich et al. (2014; new records: France), Gasparyan and Sipman (2016; new records, Armenia), Lücking et al. (2017a; classification), sequences unavailable.

Seaverinia Whetzel 1945 (= *Verrucobotrys* Hennebert 1973 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *Verrucobotrys geranii* (Seaver) Hennebert, asexual morph formerly named in *Verrucobotrys*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are unavailable.

Sedecimiella K. L. Pang, Alias & E. B. G. Jones 2010, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. taiwanensis* K.L. Pang, Alias & E.B.G. Jones, asexual morph unknown, saprobes, marine, Hong Kong, Taiwan, see Pang et al. (2010a; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: BBH 26390.

Sedelnikovaea S.Y. Kondr., M.H. Jeong & Hur 2015, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *S. baicalensis* (Zahlbr.) S.Y. Kondr., M.H. Jeong & Hur, asexual morph unknown, lichenized, see Kondratyuk et al. (2015b; taxonomy), Lücking et al. (2017a; classification).

Segestria Fr. 1825, *Porinaceae*, *Ostropales*, *Lecanoromycetes*, 70 species, type: *S. lectissima* Fr., lichenized, see Lücking (2008; taxonomy), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification); sequences are available but lacking for type.

Seifertia Partr. & Morgan-Jones 2002, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *S. azaleae* (Peck) Partr. & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Li et al. (2016b; new species, China), cultures available for the type: DAOM 239135.

Seimatosporiopsis B. Sutton, Ghaffer & Abbas 1972, *Ascomycota* genera *incertae sedis*, two species, type: *S. salvadorae* B. Sutton, Ghaffer & Abbas, coelomycetous, sexual morph unknown, saprobes, Pakistan, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Seimatosporium Corda 1833 (= *Discostroma* Clem. 1909 *fide* Réblová et al. 2016c), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, 75 species, type: *S. rosae* Corda, asexual morph coelomycetous, saprobes, ?pathogens, worldwide, see Barber et al. (2011; new species, phylogeny), Tanaka et al. (2011a; phylogeny), Wijayawardene et al. (2012, 2016a, b, 2017; outline, taxonomy, new species), Crous et al. (2014c; new species), Ariyawansa et al. (2015a; new species), Norphanphoun et al. (2015; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2015; outline, phylogeny), Réblová et al. (2016c; nomenclature), Rossman et al. (2016b; new combination), Goonasekara et al. (2016; new species), Perera et al. (2016a; sexual morph of *S. cornii*), cultures available for the type: MFLUCC 14−0621.

Seiridium Nees 1816 (= *Blogiascospora* Shoemaker et al. 1966 *fide* Réblová et al. 2016c), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, 35 species, type: *S. marginatum* Nees, asexual morph coelomycetous, saprobes, ?pathogens, worldwide, see Wijayawardene et al. (2012, 2016b; outline, taxonomy, new species), Crous et al. (2012c, 2014c; new species), Senanayake et al. (2015; outline, phylogeny), Maharachchikumbura et al. (2015a, b, 2016a; outline, phylogeny), Jaklitsch et al. (2016a; phylogeny), Réblová et al. (2016c; nomenclature), cultures available for the type: SEI1.

Seirophora Poelt 1983, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, twelve species, type: *S. magara* (Kremp.) Poelt, lichenized, see Lumbsch and Huhndorf (2010; outline), Moniri and Sipman (2011; new record), Arup et al. (2013; phylogeny), Benesperi et al. (2013; ecology), Kirk et al. (2013; genus accepted), Zhurbenko (2013; new record), Giordani et al. (2015; ecology), Kondratyuk et al. (2014, 2015a, b; taxonomy, phylogeny), Moniri et al. (2014; new record, Iran), Lücking et al. (2017a; classification), sequences are available.

Selenaspora R. Heim & Le Gal 1936, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, two species, type: *S. batava* R. Heim & Le Gal, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus

accepted), cultures and sequences are unavailable for the type.

Selenodriella R.F. Castañeda & W.B. Kendr. 1990, *Microdochiaceae*, *Xylariales*, *Sordariomycetes*, seven species, type: *S. fertilis* (Piroz. & Hodges) R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Hernández-Restrepo et al. (2016a; new species, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Selenophoma Maire 1907, *Saccotheciaceae*, *Dothideales*, *Dothideomycetes*, 13 species, type: *S. catananches* Maire, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Cheewangkoon et al. (2009; new species, phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2015c; phylogeny), cultures and sequences are available but lacking for the type.

Selenosira Petr. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *S. unica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Selenosporella G. Arnaud ex MacGarvie 1968, *Ascomycota* genera *incertae sedis*, twelve species, type: *S. curvispora* G. Arnaud ex MacGarvie, hyphomycetous, saprobes, on decaying leaves, terrestrial, worldwide, Castañeda-Ruiz et al. (2009a; key and new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Fiuza et al. (2015b; new species), holotype of type: IMI 129890, cultures and sequences are unavailable.

Selenosporopsis R.F. Castañeda & W.B. Kendr. 1991, *Ascomycota* genera *incertae sedis*, one species, type: *S. elegans* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Selenozyma Yarrow 1977, *Saccharomycetes* genera *incertae sedis*, two species, type: *S. intestinalis* (Krassiln.) Yarrow, yeast, sexual morph unknown, saprobes, terrestrial, Netherlands, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for the type.

Selinia P. Karst. 1876, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. pulchra* (G. Winter) Sacc., asexual morph tubercularia-like, coprophilous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Chaverri et al. (2011; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures are available.

Semidelitschia Cain & Luck-Allen 1969, *Delitschiaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *S. agasmatica* Cain & Luck-Allen, asexual morph unknown, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Delitschiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Semifissispora H.J. Swart 1982, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *S. fusiformis* H.J. Swart, asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes*, genera *incertae sedis*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Crous et al. (2015e; DNA, new species, phylogeny), cultures and sequences are available but lacking for the type.

Semigyalecta Vain. 1921, *Gyalectaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *S. paradoxa* Vain., lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Semisphaeria K. Holm & L. Holm 1991, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. sigmundii* K. Holm & L. Holm, asexual morph unknown, saprobes, terrestrial, Norway, Sweden, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Sepedonium Link 1809, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, 13 species, type: *S. mycophilum* (Pers.) Nees, hyphomycetous, on fungi, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Septocyta Petr. 1927, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, five species, type: *S. ramealis* (Roberge ex Desm.) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Aleksić et al. (2011; use in disease control, DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Septocytella Syd. 1929, *Ascomycota* genera *incertae sedis*, one species, type: *S. bambusina* Syd.,

coelomycetous, sexual morph unknown, saprobes, China, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Septofusidium W. Gams 1971, *Tilachlidiaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *S. elegantulum* (Pidopl.) W. Gams, hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Septogloeum Sacc. 1880, *Ascomycota* genera *incertae sedis*, two species, type: *S. carthusianum* (Sacc.) Sacc., coelomycetous, sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Septomyrothecium Matsush. 1971, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *S. uniseptatum Matsush*, asexual morph unknown, saprobes, terrestrial, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Liu et al. (2015a; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Lombard et al. (2016; phylogeny), cultures available for the type: CBS 100966.

Septomyxella (Höhn.) Höhn. 1923, *Ascomycota* genera *incertae sedis*, one species record, type: *M. spaethianum* Allesch., coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Septonema Corda 1837, *Mytilinidiaceae*, *Mytilinidiales*, *Dothideomycetes*, c. 15 species, type: *S. secedens* Corda, sexual stage unknown, terrestrial, saprobes, lichenized, Asia, Europe, Africa, North America, see Jankowiak and Rossa (2008; associations with *Pityogenes*), Wang et al. (2008a; fallen leaves), Koukol (2010; new species), Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Wiewióra (2012; seed health), Chigoziri and Ekefan (2013; seed borne fungi), Álvarez et al. (2015; ophiostomatoid fungus), sequences are unavailable.

Septopatella Petr. 1925, *Ascomycota* genera *incertae sedis*, one species, type: *S. septata* (Jaap) Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Septoria Sacc. 1884, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, c. 1000 (200 are presently recognized based on DNA), type: *S. cytisi* Desm., coelomycetous, sexual morph mycosphaerella-like, of which, plant pathogens, terrestrial, worldwide, see Quaedvlieg et al. (2011, 2013; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Verkley et al. (2013; morphology, phylogeny), cultures and sequences are available.

Septoriella Oudem. 1889 (= *Wojnowicia* Sacc. 1892 *fide* Crous et al. 2015a), *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 19 species, type: *S. phragmitis* Oudem., coelomycetous, sexual morph unknown, saprobes, worldwide, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2013a, 2014c, 2017; outline, taxonomy), Crous et al. (2014c, 2015a; new species, phylogeny), Li et al. (2015c; new species), Thambugala et al. (2017b, new species, phylogeny), epitype and ex-epitype cultures of the type: CBS H-22281, CPC 24118 = CBS 140065.

Septorioides Quaedvl., Verkley & Crous 2013, *Septorioideaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *S. pini-thunbergii* (S. Kaneko) Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, pathogens, terrestrial, Japan, see Quaedvlieg et al. (2013; morphology, phylogeny), cultures and sequences are available.

Septosporiopsis W.A. Baker & Morgan-Jones 2009, *Ascomycota* genera *incertae sedis*, one species, type: *S. elaeidis* (J.M. Yen & Sulmont) W.A. Baker & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, on palm litter, Africa, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Septosporium Corda 1831, *Ascomycota* genera *incertae sedis*, 28 species, type: *S. atrum* Corda, hyphomycetous, sexual morph unknown, saprobes, on wood (*Acer*, *Carpinus*, *Sorbus*, and many others) and litter (Bambusa), cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Septotinia Whetzel ex J.W. Groves & M.E. Elliott 1961 (= *Septotis* N.F. Buchw. ex Arx 1970 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *S. podophyllina* Whetzel, asexual morph formerly known in *Septotis*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures and sequences are unavailable.

Septotrapelia Aptroot & Chaves 2007, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, four species, seven

species, type: *S. glauca* Aptroot & Chaves, lichenized, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Aptroot and Iqbal (2012; new record, Pakistan), Bungartz et al. (2013b; taxonomy), Aptroot and Moon (2014; new species, Korea), Lücking et al. (2017a; classification), holotype of the type: INB, Aptroot 60426, cultures and sequences are unavailable

Septotrullula Höhn. 1902, *Ascomycota* genera *incertae sedis*, four species, type: *S. bacilligera* Höhn., hyphomycetous, sexual morph unknown, saprobes, on bark (*Betula*, *Fagus*, *Quercus*), Australasia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Serenomyces Petr. 1952, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, five species, type: *S. shearii* Petr., saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Phaeochoraceae*), Kirk et al. (2013; genus accepted), Elliott and Des Jardin (2014; species associated with palms in southeastern USA), Maharachchikumbura et al. (2015b, 2016b; outline), cultures are available for unidentified species (unpublished).

Seriascoma Phook., D.Q. Dai & K.D. Hyde 2016, *Occultibambusaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. didymospora* Phook., D.Q. Dai, Karunar. & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Thailand, see Dai et al. (2017; phylogeny, morphology, sexual and asexual morphs), ex-type culture of type: MFLUCC 11–0179.

Servazziella J. Reid & C. Booth 1987, *Sordariomycetes* genera *incertae sedis*, five species, type: *S. longispora* (Servazzi) J. Reid & C. Booth, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Servitia M.S. Christ. & Alstrup 2001, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, species, type: *S. inconspicuum* (Lynge) M.S. Christ. & Alstrup, asexual morph unknown, lichenized, terrestrial, Greenland, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Sessiliospora D. Hawksw. 1979, *Ascomycota* genera *incertae sedis*, one species, type: *S. bicolor* D. Hawksw., sexual morph unknown, lichenicolous on foliicolous lichens, Asia, terrestrial, see Seifert et al. (2011; genus accepted), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: K(M)-IMI 41011c.

Setameliola D.R. Reynolds 2010, *Meliolaceae*, *Meliolales*, *Sordariomycetes*, 26 species, type: *S. argentina* (Speg.) D.R. Reynolds, asexual morph unknown, saprobes, terrestrial, Singapore, see Reynolds (2010; taxonomy), cultures and sequences are unavailable.

Setiferotheca Matsush. 1995, *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *S. nipponica* Matsush., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Setocampanula Sivan. & W.H. Hsieh 1989, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, one species, type: *S. taiwanensis* Sivan. & W.H. Hsieh, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences unavailable.

Setolibertella Punith. & Spooner 1999, *Ascomycota* genera *incertae sedis*, one species, type: *S. solani* Punith. & Spooner, sexual morph unknown, coelomycetous, saprobes, on dead stems of *Solanum mauritanium*, Azores, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: KM 58669, cultures and sequences are unavailable.

Setomelanomma M. Morelet 1980, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. holmii* M. Morelet, asexual morph coelomycetous, saprobes or pathogens, terrestrial, cosmopolitan, see Zhang et al. (2012e; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Phaeosphaeriaceae*), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Setophaeosphaeria Crous & Y. Zhang ter 2014, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, three species, type: *S. hemerocallidis* Crous & Y. Zhang ter, with coelomycetous asexual morph, saprobes, ?pathogens, terrestrial, China, see Crous et al. (2014c; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype and ex-type culture of type: CBS H-21720, CPC 23645.

Setophiale Matsush. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *S. unisetulata* Matsush., sexual morph unknown, hyphomycetous, saprobes, on palm petioles, Peru, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: Matsushima Fungus Collection, Kobe, MFC-4P766, cultures and sequences are unavailable.

Setophoma Gruyter, Aveskamp & Verkley 2010, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, asexual morph coelomycetous, five species, type: *S. terrestris* (H.N. Hansen) Gruyter, Aveskamp &

Verkley, saprobes, ?pathogens, terrestrial, Brazil, North America, see de Gruyter et al. (2010; morphology, phylogeny), Quaedvlieg et al. (2013; morphology, phylogeny), Crous et al. (2014c, 2016b; morphology, phylogeny, sexual morph), Phookamsak et al. (2014a; sexual morph, phylogeny), Wijayawardene et al. (2014c; outline), Thambugala et al. (2017b, new species, phylogeny), lectotype and ex-lectotype culture of type: CBS H-20311, CBS 335.29.

Setoseptoria Quaedvl., Verkley & Crous 2013, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. phragmitis* Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, pathogens, terrestrial, Hong Kong, see Quaedvlieg et al. (2013; morphology, phylogeny), Wijayawardene et al. (2014c; outline), holotype of the type: CBS H-21324, culture ex-type CBS 114802.

Setosporella Mustafa & Abdul-Wahid 1989, *Ascomycota* genera *incertae sedis*, one species, type: *S. mahmoudii* Moustafa & Abdul-Wahid, sexual morph unknown, hyphomycetous, saprobes, isolated from soil, Egypt, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 326932, cultures and sequences are unavailable.

Setosynnema D.E. Shaw & B. Sutton 1985, *Ascomycota* genera *incertae sedis*, one species, type: *S. isthmosporum* D.E. Shaw & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Seuratiopsis Woron. 1934, *Seuratiaceae*, *Ascomycota* families *incertae sedis*, one species, type: *S. epiphylla* Woron., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Seychellomyces Matsush. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *S. hexagonus* Matsush., sexual morph unknown, hyphomycetous, saprobes, isolated from soil, Seychelles, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Seynesia Sacc. 1883, *Cainiaceae*, *Xylariales*, *Sordariomycetes*, two species, type: *S. nobilis* (Welw. & Curr.) Sacc., tropical, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for type.

Seynesiella G. Arnaud 1918, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, c. 80 species, type: *S. juniperi* (Desm.) G. Arnaud, asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; taxonomy), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Seynesiopeltis F. Stevens & R.W. Ryan 1925, *Seynesiopeltidaceae*, *Dothideomycetes*, *incertae sedis*, one species, type: *S.* tetraplasandrae F. Stevens & R.W. Ryan, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Seynesiopsis Henn. 1904, *Ascomycota* genera *incertae sedis*, one species, type: *S. rionegrensis* Henn., sexual morph unknown, coelomycetous, saprobes, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Shackletonia Søchting, Frödén & Arup 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, five species, type: *S. hertelii* (Søchting, Øvstedal & Sancho) Søchting, Frödén & Arup, asexual morph unknown, lichenized, terrestrial, see Arup et al. (2013; taxonomy), Kondratyuk et al. (2014; phylogeny), Garrido-Benavent et al. (2016; new species), Lücking et al. (2017a; classification), sequences are available.

Shanorella R.K. Benj. 1956, *Arthrodermataceae*, *Onygenales*, *Eurotiomycetes*, 17 species, type: *S. spirotricha* R.K. Benj., a sexual morph unknown, on humans and other mammals, causing microsporoses, terrestrial, USA, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), culture available for the type: CBS 305.56.

Shawiella Hansf. 1957, *Ascomycota* genera *incertae sedis*, one species, type: *S. grevilleae* Hansf., sexual morph unknown, coelomycetous, saprobes, on leaves of *Grevillea robusta*, New Guinea, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Shearia Petr. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *S. magnoliae* (Shear) Petr., coelomycetous, sexual morph unknown, saprobes, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Shweariella Petr. 1952, *Ascomycota* genera *incertae sedis*, one species, type: *S. carbonacea* Petr., sexual morph unknown, coelomycetous, saprobes, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sheathnema Dubey & Moonnambeth 2014, *Ascomycota* genera *incertae sedis*, two species, type: *S. indicum* Dubey & Moonnambeth, hyphomycetous, sexual morph unknown, saprobes, epiphytes, India, see Dubey and Moonnambeth (2014a; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Shimizuomyces Kobayasi 1981, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *S. paradoxus* Kobayasi, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Sung et al. (2010, 2011; culture characters of the type, applications), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: EFCC 6279.

Shiraia Henn. 1900, *Shiraiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. bambusicola* Henn., asexual morph coelomycetous, parasitic, terrestrial, China and Japan, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2013b; morphology, nomenclature, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; 2017; outline), cultures and sequences are available, ex-epitype strains of type: GZAAS2.0708 = CGMCC 3.15200 = MFLUCC 13-0408; holotype of type: Shirai (B!), epitype of type: GZAAS K-2002.

Shivomyces Hosag. 2004, *Ascomycota* genera *incertae sedis*, two species, type: *S. ligustri* Hosag. & Kamar., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Shrungabeeja V.G. Rao & K.A. Reddy 1981, *Tetraplosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *S. vadirajensis* V.G. Rao & K.A. Reddy, hyphomycetous, saprobes, on bamboo (*Bambusa*) and other plants (*Begonia*, *Melicope*), Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Ariyawansa et al. (2015a; new species, phylogeny), cultures and sequences are unavailable.

Sibirina G.R.W. Arnold 1970, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *S. fungicola* G.R.W. Arnold, hyphomycetous, sexual morphs unknown, mycoparasites, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available.

Siemaszkoa I.I. Tav. & T. Majewski 1976, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, seven species, type: *S. flexa* (T. Majewski) I.I. Tav. & T. Majewski, asexual morph unknown, biotrophic on Coleoptera (Ptiliidae), Europe, Southern America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sigarispora Thambug. & K.D. Hyde 2015, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *S. ravennica* (Tibpromma, Camporesi & K.D. Hyde) Thambug. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Italy and Japan, six species, see Thambugala et al. (2015b; morphology, phylogeny), Li et al. (2016a; new species), Tibpromma et al. (2017b; new species), holotype of type: MFLU 14–0692, ex-type strains of type: MFLUCC 14–0005.

Sigleria Hirooka, Tanney & Seifert 2015, *Spiromastigaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *S. carmichaelii* Hirooka, Tanney & Seifert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Vietnam, see Hirooka et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype of type: DAOM 571575.

Sigmatomyces Sacc. & P. Syd. 1913, *Ascomycota* genera *incertae sedis*, one species, type: *S. bakeri* Sacc., Syd. & P. Syd., sexual morph unknown, hyphomycetous, saprobes, Philippines, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sigmoidea J.L. Crane 1968, *Phaeotrichaceae*, *Phaetrichales*, *Dothideomycetes*, type: *S. prolifera* (R.H. Petersen) J.L. Crane, hyphomycetous, freshwater, on wood and leaves, worldwide, Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available. Marine *Sigmoidea (= Halosigmoidea)* species group in *Corollospora*, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, see Jones et al. (2009b; morphology, phylogeny), Jones et al. (2015) and Réblová et al. (2016c).

Sigridea Tehler 1993, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, six species, type: *S. californica* (Tuck.) Tehler, lichenized (only one lichenicolous), terrestrial, tropical to subtropical with a preference for coastal habitats with a Mediterranean climate, see Ertz and Tehler (2011; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ertz et al. (2015b, c; morphology, phylogeny), Lücking et al. (2017a; classification), lectotype and ex-type strain of type: Bolander 129 (FH).

Sillia P. Karst. 1873, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *S. ferruginea* (Pers.) P. Karst., asexual morphs unknown, saprobes, terrestrial, Europe, America, see Lumbsch and Huhndorf (2010; outline), Kruys and Castlebury (2012; phylogeny),

Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2017; placement), Tibpromma et al. (2017b; new species), cultures available for the type: CBS 126567.

Simonyella J. Steiner 1902, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *S. variegata* J. Steiner, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification, treated as *Roccellaceae*), sequences are available.

Simplicillium W. Gams & Zare 2001, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, nine species, type: *S. lanosoniveum* (J.F.H. Beyma) Zare & W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, Europe, North America, see Seifert et al. (2011; morphology), Liu and Cai (2012; new species, China), Wijayawardene et al. (2012, 2017; outline), Nonaka et al. (2013b; new species, Japan), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Sinodidymella J.Z. Yue & O.E. Erikss. 1985, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes* families *incertae sedis*, five species, type: *S. verrucosa* (Petr.) J.Z. Yue & O.E. Erikss., see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Sinotrichium Juan Wang, S.Q. Xu & Strongman 2010, *Ascomycota* genera *incertae sedis*, one species, type: *S. chironomidarum* Juan Wang, S.Q. Xu & Strongman, asexual morph unknown, from the hindgut of a chironomid larva, China, see Wang et al. (2010b; taxonomy), holotype of the type: XIN-4, cultures and sequences are unavailable.

Siphula Fr. [nom. cons.] 1824, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, 26 species; type: *S. ceratites* (Wahlenb.) Fr., lichenized, see Valadbeigi and Sipman (2010; new records), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Resl et al. (2015; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Siphulastrum Müll.Arg. 1889, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, four species; type: *S. triste* Müll. Arg., lichenized see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ekman et al. (2014; phylogeny), Jørgensen and Andersen (2015; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Siphulella Kantvilas, Elix & P. James 1992, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *S. coralloidea* Kantvilas, Elix & P. James, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Sipmania Egea & Torrente 1994, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *S. peltata* Egea & Torrente, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sipmaniella Kalb 2009, *Megalosporaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *S. sulphureofusca* (Fée) Kalb, lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Sirastachys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, seven species, type: *S. phaeospora* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22460, CBS 100155.

Sirenophila Søchting, Arup & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, seven species, type: *S. gintarasii* (S.Y. Kondr. & Kärnefelt) Arup, Frödén & Søchting, lichenized, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), Søchting et al. (2016; new species, southern hemisphere), sequences are available.

Sirexcipula Bubák 1907, *Ascomycota* genera *incertae sedis*, one species, type: *S. kabatiana* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirococcus Preuss 1855, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, three species, type: *S. strobilinus* Preuss, coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Crous et al. (2012f, 2016a, b; phylogeny, new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Sirocyphis Clem. 1909, *Ascomycota* genera *incertae sedis*, one species, type: *S. kabatiana* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirogloea Petr. 1923, *Ascomycota* genera *incertae sedis*, one species, type: *S. euonymi* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al.

(2013; genus accepted), cultures and sequences are unavailable.

Siroligniella Naumov 1926, *Ascomycota* genera *incertae sedis*, one species, type: *S. salicicola* Naumov, coelomycetous, sexual morph unknown, saprobes, terrestrial, former USSR, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirophoma Höhn. 1917, *Ascomycota* genera *incertae sedis*, three species, type: *S. singularis* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Siroplacodium Petr. 1940, *Ascomycota* genera *incertae sedis*, six species, type: *S. atrum* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, China, see Wijayawardene et al. (2012, 2017; outline), Zhao and Zhao (2012; new species, China), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Siropleura Petr. 1934, *Ascomycota* genera *incertae sedis*, one species, type: *S. pulchella* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Siroscyphellina Petr. 1923, *Ascomycota* genera *incertae sedis*, two species, type: *S. arundinacea* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Austria, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirosperma Syd. & P. Syd. 1917, *Ascomycota* genera *incertae sedis*, two species, type: *S. hypocrellae* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Papua New Guinea, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirosphaera Syd. & P. Syd. 1913, *Ascomycota* genera *incertae sedis*, two species, type: *S. botryosa* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirosporium Bubák & Serebrian. 1912, ?*Dothideomycetes* genera *incertae sedis*, c. 26 species, type: *S. antenniforme* (Berk. & M.A. Curtis) Bubák & Serebrian., hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are available.

Sirosporonaemella Naumov 1951, *Ascomycota* genera *incertae sedis*, one species, type: *S. strobilina* Naumov, coelomycetous, sexual morph unknown, saprobes, terrestrial, Russia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirothecium P. Karst. 1887, *Ascomycota* genera *incertae sedis*, three species, type: *S. saepiarium* P. Karst., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirothyriella Höhn. 1910, *Ascomycota* genera *incertae sedis*, two species, type: *S. pinastri* Höhn. ex Sacc., coelomycetous, saprobes, terrestrial, Europe, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Sirothyrium Syd. & P. Syd. 1916, *Ascomycota genera incertae sedis*, one species, type: *S. taxi* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirozythia Höhn. 1904, *Ascomycota* genera *incertae sedis*, two species, type: *S. rosea* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sirozythiella Höhn. 1909, *Ascomycota* genera *incertae sedis*, one species, type: *S. sydowiana* (Sacc.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sitochora H.B.P. Upadhyay 1964, *Ascomycota* genera *incertae sedis*, one species, type: *S. ellipsospora* H.B.P. Upadhyay, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sivanesania W.H. Hsieh & Chi Y. Chen 1996, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *S. rubi* W.H. Hsieh & Chi Y. Chen, asexual morph unknown, saprobes, terrestrial, Taiwan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Sivanesaniella Gawande & D.K. Agarwal 2004, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. prunicola* Gawande & D.K. Agarwal, asexual morph

unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013; did not accept as a genus in *Venturiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Skottsbergiella Petr. 1927, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *S. diaporthoides* Petr., asexual morph unknown, saprobes, terrestrial, Chile, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Skyathea Spooner & Dennis 1986, ?*Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *S. hederae* Spooner & Dennis, asexual morph unknown, saprobe of wood, Skye Island, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype of the type: K 32267, cultures and sequences are unavailable.

Skyttea Sherwood, D. Hawksw. & Coppins 1981, *Cordieritidaceae*, *Leotiomycetes* families *incertae sedis*, 29 species, type: *S. nitschkei* (Körb.) Sherwood, D. Hawksw. & Coppins lichenicolous, widespread, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Suija et al. (2014, 2015b; phylogeny), Jaklitsch et al. (2016a; position), sequences are available, holotype of type: L 910.195-559.

Skyttella D. Hawksw. & R. Sant. 1988, ?*Cordieritidaceae*, *Leotiomycetes* families *incertae sedis*, one species, type: *S. muelleri* (Willey) D. Hawksw. & R. Sant., on lichens, terrestrial, Europe and North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; position), sequences are available, holotype of type: FH.

Slimacomyces Minter 1986, *Ascomycota* genera *incertae sedis*, two species, type: *S. monosporus* (W.B. Kendr.) Minter, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Slopeiomyces Klaubauf, Lebrun & Crous 2014, *Magnaporthaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *S. cylindrosporus* (D. Hornby, Slope, Gutter. & Sivan.) Klaubauf, Lebrun & Crous, asexual morph hyphomycetous, saprobes, terrestrial, UK, see Klaubauf et al. (2014; morphology, phylogeny), Maharachchikumbura et al. (2015b; outline), ex-type culture of type: CBS 609.75.

Smaragdiniseta L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *S. bisetosa* (V.G. Rao & de Hoog) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), ex-type of the type: CBS 459.82.

Smardaea Svrček 1969, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, eight species, type: *S. amethystina* (W. Phillips) Svrček, asexual morph unknown, saprobes, terrestrial, north temperate, see Van Vooren (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Smarodsia Raitv. & Vimba 2006, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *S. stollii* Raitv. & Vimba, asexual morph unknown, from soil, terrestrial, Latvia, see Lumbsch and Huhndorf (2010; outline), holotype of the type: RIG 6493, cultures and sequences are unavailable.

Smeringomyces Thaxt. 1908, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *S. anomalus* (Thaxt.) Thaxt., asexual morph unknown, biotrophic on Coleoptera (Staphilinidae), USA, Europe, Japan, Trinidad, Sumatra, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sodiomyces Grum-Grzhimaylo, Debets & Bilanenko 2013, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, two species, type: *S. alkalinus* (Bilanenko & M. Ivanova) A.A. Grum-Grzhimaylo, A.J.M. Debets & E.N. Bilanenko, asexual morph unknown, saprobes, terrestrial, worldwide, see Grum-Grzhimaylo et al. (2013a; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Solanella Vaňha 1910, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, one species, type: *S. rosea* Vaňha, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification, treated as *Pezizales*), cultures and sequences are unavailable.

Soleella Darker 1967, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, seven species, type: *S. striiformis* (Darker) Darker, asexual morph unknown, saprobes, terrestrial, North America, China, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Solenopezia Sacc. 1889, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *S. solenia* Sacc., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline),

Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for type.

Solenopsora A. Massal. 1855, *Catillariaceae*, *Rhizocarpales*, *Lecanoromycetes*, 20 species, type: *S. requienii* A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Van Den Boom (2010; new records, Spain), Farkas et al. (2011; distribution Hungary), Kınalıoglu and Aptroot (2011; new records, Turkey), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), Yazici and Aslan (2016; new species, Turkey), sequences are available.

Solicorynespora R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, 27 species, type: *S. zapatensis* R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see McKenzie (2010; new species), Seifert et al. (2011; morphology), Ma et al. (2012d, 2016a; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2014a; new species), cultures and sequences are unavailable.

Solitaria Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *S. chrysophthalma* (Degelius) Arup, Søchting & Frödén, asexual morph unknown, lichenized, terrestrial, see Arup et al. (2013; taxonomy), Gaya et al. (2015; phylogeny), Lücking et al. (2017a; classification); sequences are

Soloacrospora W.B. Kendr. & R.F. Castañeda 1991, *Ascomycota* genera *incertae sedis*, two species, type: *S. flagellisetosa* W.B. Kendr. & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Soloacrosporiella Crous & M.J. Wingf. 2015, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. acaciae* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, Malaysia, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22223, CPC 24871.

Solorina Ach. 1808, *Peltigeraceae*, *Peltigerales*, *Lecanoromycetes*, ten species, type: *S. crocea* (L.) Ach., lichenized, Asia, Europe, North America, see Gagunashvili et al. (2009; molecular), Björk (2010; new record), Lumbsch and Huhndorf (2010; outline), Wedin et al. (2011; molecular), Grube et al. (2012; symbiosis), Lisov et al. (2012; ecology), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; molecular), Centeno et al. (2016; metabolic profiling), Magain et al. (2016; molecular), Lücking et al. (2017a; classification), sequences are available.

Solorinaria (Vain.) Gyeln., 1935, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *S. fuscata* (Vain.) Gyeln., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Aptroot and Iqbal (2012; checklist), Kirk et al. (2013; genus accepted), Brackel (2013; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Solosympodiella Matsush. 1971, *Ascomycota* genera *incertae sedis*, eight species, type: *S. clavata* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Soloterminospora Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *S. caffra* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: Matsushima Fungus Collection, Kobe, 5A089, cultures and sequences are unavailable.

Sonderhenia H.J. Swart & J. Walker 1988, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *S. eucalyptorum* (Hansf.) H.J. Swart & J. Walker coelomycetous, sexual morph mycosphaerella-like, two species, plant pathogens on *Eucalyptus*, terrestrial, see Crous et al. (2013a; morphology, phylogeny), Videira et al. (2017; typification), Wijayawardene et al. (2017; outline), holotype DAR 45719, isotype IMI 280474 (sexual morph), holotype WARI 2007 (asexual morph); representative cultures CBS 120220 = CPC 12553, CPC 12554–12555.

Soosiella Hujslová & M. Kolařík 2014, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. minima* Hujslová & M. Kolařík, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Czech Republic, see Hujslová et al. (2014; phylogeny), holotype and ex-type of the type: PRM 922619, CBS 136257.

Sordaria Ces. & De Not. 1863, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, twelve species, type: *S. fimicola* (Roberge ex Desm.) Ces. & De Not., asexual morph unknown, terrestrial, saprobes, coprophilous, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; phylogeny), cultures and sequences are available.

Sorocybe Fr. 1849, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, three species, type: *S. resinae* (Fr.) Fr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology, genus accepted), Wijayawardene et al.

(2012, 2017; outline), Kirk et al. (2013; did not accept genus), cultures and sequences are available.

Sorokina Sacc. 1892, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, six species, type: *S. microspora* (Berk.) Sacc., asexual morph unknown, saprobes, terrestrial, pantropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sorokinella J. Fröhl. & K.D. Hyde 2000, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, type: *S. appendicospora* J. Fröhl. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Hong Kong, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Sowerbyella Nannf. 1938, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, eight species, type: *S. radiculata* (Sowerby) Nannf., asexual morph unknown, saprobes, terrestrial, Europe, China, see Zhuang (2009; new species), Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), sequences are available.

Spadicoides S. Hughes 1958, *Sordariomycetes* genera *incertae sedis*, c. 40 species, type: *S. bina* (Corda) S. Hughes 1958, hyphomycetous, sexual morph unknown, phialophora-like and selenosporella-like synanamorphs, saprobes, terrestrial and aquatic, cosmopolitan, see Shenoy et al. (2010; polyphyly, affinities with *Dothideomycetes* and *Sordariomycetes*), Seifert et al. (2011; morphology), Ma et al. (2012a, 2012h, 2014a, new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Heredia et al. (2015, new species), sequences are available but lacking for the type.

Sparria Ertz & Tehler 2011, *Opegraphaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *S. cerebriformis* (Egea & Torrente) Ertz & Tehler, lichenized, see Californian coast, Baja California and Europe, see Ertz and Tehler (2011; morphology, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Sparticola Phukhams., Ariyaw., Camporesi & K.D. Hyde 2016, *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *S. junci* Phukhams., Camporesi & K.D. Hyde asexual morph hyphomycetous, saprobes, terrestrial, Italy, see Phukhamsakda et al. (2016a; taxonomy, phylogeny), Thambugala et al. (2017b, new species, phylogeny), Wijayawardene et al. (2017; outline), Karunarathna et al. (2017; new species, phylogeny), holotype and ex-type of the type: MFLU 15-1405, MFLUCC 15-0030.

Spataporthe Bronson, Klymiuk, Stockey & Tomescu 2013, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *S. taylorii* Bronson, Klymiuk, Stockey & Tomescu, asexual morph unknown, fossil fungi, see Bronson et al. (2013; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Spathaspora N.H. Nguyen, S.O. Suh & M. Blackw. 2006, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *S. passalidarum* N.H. Nguyen, S.O. Suh & M. Blackw., asexual reproduction is by multilateral budding, saprophytic, associated with wood boring insect larvae, possibly worldwide, see Lumbsch and Huhndorf (2010; outline), *S. passalidarum* and other species in the clade are noted for fermentation of D-xylose, which is important for fermentation of biomass to fuel ethanol, many species in this genus represent asexual taxa originally classified in the genus *Candida*, but which have been transferred to the genus *Spathaspora* as new combinations, cultures and sequences are available.

Spathularia Pers. 1797, *Cudoniaceae*, *Rhytismatales*, *Leotiomycetes*, twelve species, type: *S. flavida* Pers., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ge et al. (2014; DNA, phylogeny), cultures and sequences are available.

Spathulospora A.R. Caval. & T.W. Johnson 1965, *Spathulosporaceae*, *Spathulosporales*, *Sordariomycetes*, five species, type: *S. phycophila* A.R. Caval. & T.W. Johnson, spermatiophores or asexual morph hyphomycetous, biotrophic on marine red alga, temperate to Antarctic sea of Southern hemisphere, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: (R.E. Norris, 3892).

Speerschneidera Trevis. 1861, *Leprocaulaceae*, *Leprocaulales*, *Lecanoromycetes*, one species, type: *S. euploca* (Tuck.) Trevis., lichenized, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in Lecanorales, genera incertae sedis), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); sequences are available.

Spegazzinia Sacc. 1880, *Apiosporaceae*, *Amphisphaeriales*, *Sordariomycetes*, nine species, type: *S. ornata* Sacc., hyphomycetous, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Whitton et al. (2012a; morphology with two types of conidia), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), Thambugala et al. (2017b, phylogeny, new species), cultures and sequences are available.

Speiropsis Tubaki 1958, *Dothideomycetes* genera *incertae sedis*, nine species, type: *S. pedatospora* Tubaki,

hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, North and South America, see Prihatini et al. (2008; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Pratibha et al. (2016; DNA, phylogeny), cultures available for the type: GUFCC 18008.

Spencermartinsia A.J.L. Phillips, A. Alves & Crous 2008, *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, nine species, type: *S. viticola* (A.J.L. Phillips & J. Luque) A.J.L. Phillips, A. Alves & Crous, asexual morph coelomycetous, saprobes, weakly pathogens, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Liu et al. (2012b; phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Phillips et al. (2013; phylogeny), Abdollahzadeh et al. (2014; new species), Slippers et al. (2014; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, taxonomy), Dissanayake et al. (2016b; taxonomy), Yang et al. (2016d; reduced *Spencermartinsia* to synonymy under *Dothiorella* but here we treat *Spencermartinsia* as a distinct genus pending further studies), holotype and ex-type of the type: LISE 95177, CBS 117009.

Spencermartinsiella Péter, Dlauchy, Tornai-Lehoczki, M. Suzuki & Kurtzman 2011, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, four species, type: *S. europaea* G. Péter, Dlauchy, Tornai-Leh., M. Suzuki & Kurtzman, cell division is by multilateral budding, saprophytic, rotted wood, Europe, South America, see Péter et al. (2011; taxonomy), cultures and sequences are available.

Spermatoloncha Speg. 1908, *Ascomycota* genera *incertae sedis*, one species, type: *S. maticola* Speg., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spermochaetella Cif. 1954, *Ascomycota* genera *incertae sedis*, one species, type: *S. tecomae* (Chardón & Toro) Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spermospora R. Sprague 1948, *Ascomycota* genera *incertae sedis*, nine species, type: *S. subulata* (R. Sprague) R. Sprague, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spermosporella Deighton 1969, *Ascomycota* genera *incertae sedis*, nine species, type: *S. aggregata* Deighton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Asia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spermotrichum Kuntze 1898, *Ascomycota* genera *incertae sedis*, one species, type: *S. pulchellum* (Speg.) Kuntze, coelomycetous, sexual morph unknown, saprobes, terrestrial, Paraguay, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphacelia Lév. 1827, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, seven species, type: *S. segetum* Lév., hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Pažoutová et al. (2008; DNA, phylogeny), Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Sphaerellopsis Cooke 1883, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *S. quercuum* Cooke, asexual morph coelomycetous, pathogens, lichenicolous, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c, 2017; outline), Trakunyingcharoen et al. (2014; new species, phylogeny), Crous et al. (2016a, b; new species, phylogeny), cultures and sequences are available but lacking for the type.

Sphaerellothecium Zopf 1897, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, type: *S. araneosum* (Rehm) Zopf, c. 30 species, asexual morph unknown, terrestrial, on lichens, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), van den Boom (2016; new species), cultures and sequences are unavailable.

Sphaeriostromella Bubák 1916, *Ascomycota* genera *incertae sedis*, one species, type: *S. pteridina* (Sacc. & Roum.) Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaeriothyrium Bubák 1916, *Ascomycota* genera *incertae sedis*, two species, type: *S. filicinum* Bubák, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaerocordyceps Kobayasi 1981, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. palustris* (Berk.) Kobayasi, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and

Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: CUP 067858, cultures and sequences are unavailable.

Sphaerodes Clem. 1909, *Coronophorales* genera *incertae sedis*, *Sordariomycetes*, 13 species, type: *S. episphaerium* (W. Phillips & Plowr.) Clem., asexual morph unknown, saprobes, terrestrial, worldwide, see Vujanovic and Goh (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Sphaerodothella C.A. Pearce & K.D. Hyde 2001, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *S. danthoniae* (McAlpine) C.A. Pearce & K.D. Hyde, saprobes, Australia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sphaerodothis (Sacc. & P. Syd.) Shear 1909, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, 20 species, type: *S. arengae* (Racib.) Shear ex Theiss. & Syd., saprobes, South East Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sphaerognomoniella Naumov & Kusnezowa 1952, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. cornicola* Naumov & Kusnezowa, asexual morph unknown, saprobes, terrestrial, former USSR, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sphaerographium Sacc. 1884, *Chaetomellaceae*, *Helotiales*, *Leotiomycetes*, twelve species, type: *S. squarrosum* Riess, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Minnis et al. (2010; new species, DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; accepted as valid genus), cultures available but lacking for the type.

Sphaeromma H.B.P. Upadhyay 1964, *Ascomycota* genera *incertae sedis*, two species, type: *S. mazosiae* H.B.P. Upadhyay, coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaeronaemella P. Karst. 1884 (= *Gabarnaudia* Samson & W. gams 1974 *fide* Réblová et al. 2016c), *Microascales* genera *incertae sedis*, *Sordariomycetes*, ten species, type: *S. helvellae* (P. Karst.) P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), de Beer et al. (2013; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), Wijayawardene et al. (2017; outline), sequences are available.

Sphaerophoma Petr. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *S. brencklei* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaerophoropsis Vain. 1890, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *S. stereocauloides* Vain., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sphaerophorus Pers. 1794, *Sphaerophoraceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *S. coralloides* Pers., asexual morph unknown, fruticose, terrestrial, saxicolous, see Wedin et al. (2009a; taxonomy), Hua-Jie et al. (2010; metal studies), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), McMullin and Arsenault (2016; new records), Root et al. (2014; climate indicator), Chamizo et al (2016, spatial distribution), Lücking et al. (2017a; classification), sequences are available.

Sphaeropsis Sacc. 1880 (= *Phaeobotryosphaeria* Speg. 1908 *fide* Phillips et al. 2013; Wijayawardene et al. 2014c; Rossman et al. 2015b), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, five species, type: *S. visci* (Alb. & Schwein.) Sacc, coelomycetous, sexual morph formerly known in *Phaeobotryosphaeria*, saprobes, endophytes, terrestrial, cosmopolitan, see Phillips et al. (2008, 2013; taxonomy, phylogeny), Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Wijayawardene et al. (2014c, 2016b; outline, taxonomy, phylogeny, nomenclature), Doilom et al. (2016; species in *Tectona*), Rossman et al. (2015b; nomenclature), Dissanayake et al. (2016b; taxonomy), neotype and ex-neotype of the type: CWU (MYC) AS 2271 (MBT176099), CBS 122527.

Sphaerosoma Klotzsch 1839, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, three species, type: *S. fuscescens* Klotzsch, asexual morph unknown, hypogeous, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaerosporella (Svrček) Svrček & Kubička 1961, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *S. brunnea* (Alb. & Schwein.) Svrček & Kubička, asexual morph hyphomycetous, hypogeous, terrestrial,

worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Sánchez et al. (2014b; asexual reproduction, DNA), cultures and sequences are available for the type.

Sphaerosporium Schwein. 1832, *Onygenales* genera *incertae sedis*, two species, type: *S. lignatile* Schwein., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North and South America, see Seifert et al. (2011; morphology), Ropars et al. (2012; DNA, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Sphaerostilbella (Henn.) Sacc. & D. Sacc. 1905 (= *Gliocladium* Corda 1840 *fide* Rossman et al. 2013b; Maharachchikumbura et al. 2016b), *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *S. lutea* (Henn.) Sacc. & D. Sacc., asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Sphaerozone Zobel 1854, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *S. tulasnei* Zobel, asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaerulina Sacc. 1878, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, 66 species, type: *S. myriadea* (DC.) Sacc., asexual morph coelomycetous, asexual morph septoria-like, saprobes or plant pathogens, terrestrial, freshwater or marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Crous et al. (2011e; taxonomy), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Mycosphaerellaceae*), Verkley et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Sphaerulomyces Marvanová. 1977, *Ascomycota* genera *incertae sedis*, one species, type: *S. coralloides* Marvanová, hyphomycetous, saprobes, Czechoslovakia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sphaleromyces Thaxt. 1894, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *S. lathrobii* Thaxt., asexual morph unknown, biotrophic on Coleoptera (Staphylinidae), Europe, America, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spheconisca (Norman) Norman 1876, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, twenty species, type: *S. hypocrita* Norman, asexual morph unknown, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sphinctrina Fr. 1825, *Sphinctrinaceae*, *Mycocaliciales*, *Eurotiomycetes*, ten species, type: *S. turbinata* (Pers.) De Not., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Muniz et al. (2013; new species), Tibell et al. (2014; new species, DNA), cultures available for the type: AFTOL-ID 1721.

Sphinctrinopsis Woron. 1927, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *S. pertusariae* Woron., lichenized, see Gaya et al. (2012; taxonomy), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are unavailable.

Spicellum Nicot & Roquebert 1976, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. roseum* Nicot & Roquebert, hyphomycetous, sexual morph unknown, saprobes, terrestrial, France, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Spilodochium Syd. 1927, *Ascomycota* genera *incertae sedis*, four species, type: *S. vernoniae* Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, Neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spilonema Bornet 1856, *Coccocarpiaceae*, *Peltigerales*, *Lecanoromycetes*, five species, type: *S. paradoxum* Bornet, lichenized, see Lumbsch and Huhndorf (2010; outline), Anderson and Neily (2012; new records), Kirk et al. (2013; genus accepted), Medeiros et al. (2014; ecology), Spribille et al. (2014b; evolution), McMullin et al. (2015; new records), Prieto et al. (2015; new record), Lücking et al. (2017a; classification), sequences are available.

Spilopodia Boud. 1885, *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, four species, type: *S. nervisequa* (Pers.) Boud., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Spilopodiella E. Müll. 1989, *Drepanopezizaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *S. arxii* E. Müll., asexual morph unknown, saprobes, terrestrial, Switzerland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spinulosphaeria Sivan. 1974, *Chaetosphaerellaceae*, *Coronophorales*, *Sordariomycetes*, 14 species, type:

S. thaxteri (Pat.) Sivan., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Mugambi and Huhndorf (2010; new species, phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline, phylogeny), cultures and sequences are available but lacking for the type.

Spinulospora Deighton 1973, *Ascomycota* genera *incertae sedis*, four species, type: *S. pucciniiphila* Deighton, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spiralum J.L. Mulder 1975, *Ascomycota* genera *incertae sedis*, two species, type: *S. helicosporum* J.L. Mulder, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spirodecospora B.S. Lu, K. D. Hyde & W. H. Ho 1998, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, two species, type: *S. bambusicola* B.S. Lu et al., asexual morph unknown, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Spirographa Zahlbr. 1903 (= *Pleospilis* Clem. 1909 *fide* Jaklitsch et al. 2016a), *Ostropomycetidae* genera *incertae sedis*, *Lecanoromycetes*, four species, type: *S. spiralis* (Müll. Arg.) Zahlbr., asexual morph unknown, saprobes, lichenicolous, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Helotiales*), Jaklitsch et al. (2016a; classification), Flakus and Kukwa (2012; new species), cultures and sequences are unavailable.

Spiromastigoides Doweld 2013, *Spiromastigaceae*, *Onygenales*, *Eurotiomycetes*, 17 species, type: *S. warcupii* (Kuehn & G.F. Orr) Doweld, asexual morph unknown, ?saprobes, from soil, terrestrial, Australia, see Index Fungorum (2013), culture available for the type: AFTOL-ID 430.

Spiromastix Kuehn & G.F. Orr 1962, *Spiromastigaceae*, *Onygenales*, *Eurotiomycetes*, eleven species, type: *S. warcupii* Kuehn & G.F. Orr, asexual morph hyphomycetous, from dung, soil, animal, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Doweld (2013; nomenclatural), Hirooka et al. (2016; new species), holotype and ex-type of the type: NRRL A-10679, CBS 576.63.

Spiroplana Voglmayr, M.J. Park & H.D. Shin 2011, *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *S. centripetala* Voglmayr, M.J. Park & H.D. Shin, hyphomycetous, sexual morph unknown, parasitic, terrestrial, Korea, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type of the type: KUS-F22135, KACC42611.

Spirosphaera Beverw. 1953, *Helotiales* genera *incertae sedis*, nine species, type: *S. floriformis* Beverw, hyphomycetous, sexual morph unknown, on decaying birch leaves in water, see Seifert et al. (2011; morphology), Voglmayr et al. (2011; taxonomy), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Splanchnonema Corda 1829, *Pleomassariaceae*, *Pleosporales*, *Dothideomycetes*, 37 species, type: *S. pustulatum* Corda, asexual morph unknown, saprobes, terrestrial, Europe, North America, China, India, see Lumbsch and Huhndorf (2010; outline, sexual morph), Zhang et al. (2012e; accepted as a genus in *Pleomassariaceae*, phylogeny), Zhao and Zhao (2012; new species, China), Hyde et al. (2013; accepted as a genus in *Pleomassariaceae*, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type.

Splanchospora Lar.N. Vassiljeva 1998, *Ascomycota* genera *incertae sedis*, one species, type: *S. ampullacea* (Pers.) Lar.N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate zone, see Honda et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spondylocladiella Linder 1934, *Ascomycota* genera *incertae sedis*, two species, type: *S. botrytioides* Linder, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spondylocladiopsis M.B. Ellis 1963, *Ascomycota* genera *incertae sedis*, two species, type: *S. cupulicola* M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, India, see Pratibha et al. (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Spooneromyces T. Schumach. & J. Moravec 1989, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, five species, type: *S. laeticolor* (P. Karst.) T. Schumach. & J. Moravec, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hansen et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Van Vooren (2014; new species), cultures and sequences are available.

Sporastatia A. Massal. 1854, *Sporastatiaceae*, *Rhizocarpales*, *Lecanoromycetes*, four species, type: *S. testudinea* (Ach.) A. Massal., lichenized, saxicolous, worldwide temperate, see Lumbsch and Huhndorf (2010; outline), Bendiksby and Timdal (2013; phylogenetic placement), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogenetic placement), Lücking et al. (2017a; classification), sequences are available.

Sporendocladia G. Arnaud ex Nag Raj & W.B. Kendr. 1975, *Microascales* genera *incertae sedis*, *Sordariomycetes*, seven species, type: *S. castaneae* G. Arnaud ex Nag Raj & W.B. Kendr., asexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Kiyuna et al. (2012; DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Sporendonema Desm. 1827, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, nine species, type: *S. casei* Desm., coelomycetous, sexual morph unknown, on cheese and fungi, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Sporhaplus H.B.P. Upadhyay 1964, *Ascomycota* genera *incertae sedis*, one species, type: *S. rondoniensis* H.B.P. Upadhyay, asexual morph unknown, lichenized, terrestrial, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Sporidesmajora Batzer & Crous 2010, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. pennsylvaniensis* Batzer & Crous, hyphomycetous, sexual morph unknown, one species, saprobes,? pathogens, terrestrial, USA, see Yang et al. (2010; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type culture of type: CBS H-20326, CPC 16112.

Sporidesmiella P.M. Kirk 1982, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 32 species, type: *S. claviformis* P.M. Kirk, hyphomycetous, sexual morph unknown, saprobes, on dung, terrestrial, worldwide, see Braun and Heuchert (2010; new species), Seifert et al. (2011; morphology), Ma et al. (2012e; new species, China), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Monteiro et al. (2014a; new species, Brazil), Heredia et al. (2015; new species, Mexico), Tian et al. (2015; excluded *Melanommataceae* from and placed in *Didymosphaeriaceae*), Ma (2016; new species) holotype of the type: IMI 246982, cultures and sequences are available but lacking for the type.

Sporidesmina Subram. & Bhat 1989, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. malabarica* Subram. & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: NN43118.

Sporidesmioides J.F. Li, Phook. & K.D. Hyde 2016, *Torulaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. thailandica* J.F. Li, Phook. & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Thailand, see Li et al. (2016c; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: MFLU14-0827, cultures and sequences are available.

Sporidesmiopsis Subram. & Bhat 1989, *Ascomycota* genera *incertae sedis*, one species, type: *S. malabarica* Subram. & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline, treated as *Ascomycota* genera *incertae sedis*), cultures and sequences are unavailable.

Sporidesmiopsis Subram. & Bhat, Kavaka 1989, *Ascomycota* genera *incertae sedis*, three species, type: *S. malabarica* Subram. & Bhat, hyphomycetous, sexual morph unknown, saprobes, Asia, Caribbean, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; did not list), cultures and sequences are unavailable, need generic revision.

Sporidesmium Link 1809 (= *Podoconis* Boedijn 1933 *fide* Species Fungorum 2017), *Sporidesmiaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, around 330 species, type: *S. atrum* Link, hyphomycetous, saprobes, mycoparasites, terrestrial and aquatic, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2016; new species, phylogeny), Mena-Portales et al. (2016; new species), Su et al. (2016b; phylogeny of *Sporidesmiaceae*), cultures and sequences are available.

Sporoctomorpha J.V. Almeida & Sousa da Câmara 1903, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. magnoliae* J.V. Almeida & Sousa da Câmara, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sporodictyon A. Massal. 1852, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, five species, 38 species,

type: *S. schaererianum* A. Massal., lichenized, see Dillman et al. (2014; new records, Alaska), Lücking et al. (2017a; classification); sequences are available.

Sporodophoron Frisch, Y. Ohmura, Ertz & G. Thor 2015, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, four species, type: *S. gossypinum* Frisch, Y. Ohmura & G. Thor, lichenized, see Frisch et al. (2015), Lücking et al. (2017a; classification), sequences are available.

Sporoglena Sacc., 1894, *Ascomycota* genera *incertae sedis*, one species, type: *S. velutina* Sacc., hyphomycetous, sexual morph unknown, Papua New Guinea, see Seifert et al. (2011; mentioned as a doubtful genus), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Sporomega Corda 1842, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, seven species, type: *S. degenerans* (Fr.) Corda, asexual morph unknown, saprobes, terrestrial, North America, Europe, see Lumbsch and Huhndorf (2010; outline), Lantz et al. (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), sequences are available.

Sporopachydermia Rodrigues de Miranda 1978, *Saccharomycetales* genera *incertae sedis*, *Saccharomycetes*, five species, type: *S. lactativora* Rodrigues de Miranda, asexual reproduction is by multilateral budding, saprophytic, in cacti, seawater, tree exudates, waste lagoon, clinical, Europe, North America, Antarctica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Sporophagomyces K. Põldmaa & Samuels 1999, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *S. chrysostomus* (Berk. & Broome) K. Põldmaa & Samuels., asexual morph unknown, fungicolous, terrestrial, worldwide, see Jaklitsch et al. (2008; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Sporophiala P. Rag. Rao 1970, *Ascomycota* genera *incertae sedis*, three species, type: *S. prolifica* P. Rag. Rao, hyphomycetous, sexual morph unknown, Asia, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Sporopodiopsis Sérusiaux 1997, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *S. sipmanii* Sérus., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Sporopodium Mont. 1851, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 24 species, type: *S. leprieurii* Mont., lichenized, see Lumbsch and Huhndorf (2010; outline), Weerakoon et al. (2012a; taxonomy), Kirk et al. (2013; genus accepted), Rashmi and Rajkumar (2015; new report), Lücking et al. (2017a; classification), sequences are available.

Sporormia De Not. 1845, *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, 29 species, type: *S. fimetaria* De Not., asexual morph unknown, saprobes on dung, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; accepted genus), Hyde et al. (2013; phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Sporoschisma Berk. & Broome 1847 (= *Melanochaeta* E. Müll., Harr & Sulmont 1969 *fide* Maharachchikumbura et al. 2016b; Réblová et al. 2016c), *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, type: *M. hemipsila* (Berk. & Broome) E. Müll., Harr & Sulmont., hyphomycetous, sexual morphs formerly named in *Melanochaeta*, saprobes, terrestrial (wood), Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Réblová et al. (2016c; nomenclature), Luo et al. (2016a; new species), Yang et al. (2016b; new species, phylogeny), cultures available for type: SMH 3251, SMH 2125, AR4690, GKM1247, GKM1112.

Sporoschismopsis Hol.-Jech. & Hennebert 1972 (= *Porosphaerellopsis* Samuels & E. Müll. 1982 *fide* Réblová et al. 2016c), *Reticulascaceae*, *Glomerellales*, *Sordariomycetes*, eight species, type: *S. moravica* Hol.-Jech. & Hennebert, asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Zhao and Zhao (2012; new species, China), Kirk et al. (2013; genus accepted), Réblová (2014; new species, holomorph, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Réblová et al. (2016c; nomenclature), cultures and sequences are available but lacking for the type.

Sporostigma Grube 2001, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *S. melaspora* (Tuck.) Grube, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Sporothrix Hektoen & C.F. Perkins 1901, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, c. 51 species, type: *S. schenckii* Hektoen & C.F. Perkins, terrestrial, worldwide, including saprobes associated with plant material and soil, and important clinically-relevant species causing sporotrichosis in humans and other vertebrates, see Madrid et al. (2009, 2010b; geographical

distribution, new species), Musvuugwa et al. (2015; new species), Rodrigues et al. (2015a, 2016; molecular diagnostics of pathogenic species, new species), de Beer et al. (2016; phylogeny, outline, new combinations), de Errasti et al. (2016, new species).

Sporotretophora Whitton, K.D. Hyde & McKenzie 2012, *Ascomycota* genera *incertae sedis*, one species, type: *S. punctata* Whitton, K.D. Hyde & McKenzie, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Whitton et al. (2012a; taxonomy), cultures and sequences are unavailable.

Spumatoria Massee & E.S. Salmon 1901, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, one species, type: *S. longicollis* Massee & E.S. Salmon, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Squamarina Poelt, 1958, *Squamarinaceae*, *Lecanorales*, *Lecanoromycetes*, species, sub species, varieties, forma species, type: *S. gypsacea* (Sm.) Poelt, asexual morph, undetermined, terricolous, saxicolous, widespread, see Dietrich and Buergi-Meyer (2010; taxonomy, rare occurrences in surroundings), Lumbsch and Huhndorf (2010; outline), Miralles-Mellado et al. (2011; indicator species), Jorge-Villar et al. (2011; Raman spectroscopy study), Bevan et al. (2012; transplant experiments), Cansaran-Duman and Halici (2012; biochemistry and antimicrobial study), Kirk et al. (2013; genus accepted), Bastida et al. (2014; ecology), Martellos et al. (2014; ecology, species distribution) Delgado Baquerizo et al. (2015, chemistry), Lange and Belnap (2016; soil crust studies), Lücking et al. (2017b; classification); sequences are available.

Squamella S. Hammer 2001, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *S. spumosa* S. Hammer, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Squamotubera Henn. 1903, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *S. leratii* Henn., see Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; genus accepted).

Squamulea Arup, Søchting & Frödén, 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetidae*, five species, type: *S. subsoluta* (Nylander) Arup, Søchting & Frödén, asexual morph unknown, lichenized, terrestrial, Antarctica, see Arup et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2014, 2016; revised taxonomy), Søchting et al. (2014a; phylogeny species), Lücking et al. (2017a; classification), sequences are available.

Stachybotryella Ellis & Barthol. 1902, *Ascomycota* genera *incertae sedis*, three species, type: *S. repens* Ellis & Barthol., hyphomycetous, sexual morph unknown, America, see Seifert et al. (2011; mentioned as a doubtful genus), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Stachybotryna Tubaki & T. Yokoy. 1971, *Ascomycota* genera *incertae sedis*, five species, type: *S. columaris* Tubaki & T. Yokoy., hyphomycetous, sexual morph unknown, saprobes, ?pathogens, terrestrial, Asia, Caribbean, Europe, see Seifert et al. (2011; morphology), Heredia et al. (2012; new species, Mexico), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), culture available for an unidentified species.

Stachybotrys Corda 1837, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, c. 60 species, type: *S. chartarum* (Ehrenb.) S. Hughes, hyphomycetous, sexual morph available, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species), Wang et al. (2015e; new species, revision, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Lombard et al. (2016; phylogeny, revision, sexual morph), cultures and sequences are available.

Stachylidium Link 1809, *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, two species, type: *S. bicolor* Link, hyphomycetous, sexual morph unknown, pathogens, nematophagous, terrestrial, worldwide, see Réblová et al. (2011; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures sequences are available for the type: DAOM 226658.

Stagonopatella Petr. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *S. aeruginosa* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stagonopsis Sacc. 1884, *Ascomycota* genera *incertae sedis*, four species, type: *S. pallida* (Berk. & M.A. Curtis) Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stagonospora (Sacc.) Sacc. 1884, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, 220 species, type: *S. paludosa* (Sacc. & Speg.) Sacc., coelomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Wijayawardene et al. (2012, 2014c, 2017;

outline), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2013; new species, phylogeny), Crous et al. (2014c, d, 2015a; DNA, new species, phylogeny), Tanaka et al. (2015; new species, phylogeny), Thambugala et al. (2017b, phylogeny, new species), neotype and ex-neotype of the type: CBS H-21317, S601 = CBS 135088.

Stagonosporina Tassi 1902, *Ascomycota* genera *incertae sedis*, one species, type: *S. sparti* Tassi, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stagonosporopsis Died. 1912, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, 22 species, type: *S. hortensis* (Sacc. & Malbr.) Petr., coelomycetous, with sexual morph, saprobes, ?pathogens, terrestrial, cosmopolitan, see Vaghefi et al. (2012; species associated with ray blight disease of *Asteraceae*), Chen et al. (2015b; taxonomy, phylogeny), Hyde et al. (2016; sexual morph), Tibpromma et al. (2017b; new species), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Stagonostromella Petr. & Syd. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *S. sparti* Tassi, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Staheliella Emden 1974, *Ascomycota* genera *incertae sedis*, two species, type: *S. nodosa* Emden, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Staibia Bat. & Peres 1966, *Leptopeltidaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *S. connari* Bat. & Peres, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, accepted as a genus in *Leptopeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stalagmochaetia Cif. & Bat. 1963, *Ascomycota* genera *incertae sedis*, two species, type: *S. basilisca* Bat., Cif. & Nascim., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stamnaria Fuckel 1870 (= *Titaeospora* Bubák 1916 *fide* Johnston et al. 2014b), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, five species, type: *S. persoonii* (Moug.) Fuckel, asexual morph formerly known in *Titaeospora*, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Baral and Haelewaters (2015; DNA), Wijayawardene et al. (2017; outline), cultures and sequences are available but lacking for the type.

Stanhughesia Constant. 1989, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, four species, type: *S. linnaeae* Constant., sexual morph unknown, epiphytes, epiphyllous, hyphomycetous, terrestrial, Sweden, South Africa, see Seifert et al. (2011; morphology), Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Staninwardia B. Sutton 1971, *Extremaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *S. breviuscula* B. Sutton, coelomycetous, sexual morph unknown, saprobes, pathogens, Australia, see Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2014c, 2017; outline, taxonomy), cultures and sequences are available but lacking for the type.

Stanjehughesia Subram. 1992 (= *Umbrinosphaeria* Réblová 1999 *fide* Réblová et al. 2016c), *Sordariomycetes* genera *incertae sedis*, 16 species, type: *S. hormiscioides* (Corda) Subram., hyphomycetous, sexual morph formerly named in *Umbrinosphaeria*, saprobes, terrestrial, worldwide, see Delgado (2008; new species, USA), Marincowitz et al. (2008; new species), Ma et al. (2011c; new species, China), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), et al. (2016c; nomenclature), cultures and sequences are available but lacking for the type.

Stanjemonium W. Gams, O'Donnell, Schroers & M. Chr. 1999, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *S. grisellum* W. Gams, Schroers & M. Chr., hyphomycetous, sexual morph unknown, from soil, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 655.79.

Staphylotrichum J. Mey. & Nicot 1957, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *S. coccosporum* J.A. Mey. & Nicot, sexual morph unknown, saprobes, from soil, terrestrial, Africa, Asia, Europe, see Seifert et al. (2011; morphology), Nonaka et al. (2012; new species, Japan phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for the type.

Starbaeckia Rehm ex Starbäck 1899, *Phacidiaceae*, *Phacidiales*, *Leotiomycetes*, one species, type:

S. pseudotryblidioides Rehm & Starbäck, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Starmera Y. Yamada, Higashi, Ando & Mikata 1997, *Phaffomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, ten species, type: *S. amethionina* (Starmer, Phaff, M. Miranda & M.W. Miller) Y. Yamada, Higashi, S. Ando & Mikata, cell division is by multilateral budding, saprophytic, in cacti, tunnels of wood boring insects, slime fluxes of trees, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Starmerella Rosa & Lachance 1998, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, 25 species, type: *S. bombicola* C.A. Rosa & Lachance, cell division is by multilateral budding, saprophytic, in honey, fruit juice concentrate, flowers, various beetles, bees, worldwide, see Kurtzman et al. (2010; phylogeny, revision), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), most of the species in this genus represent asexual forms originally classified in the genus *Candida* thus, they will be transferred to *Starmerella* as new combinations, cultures and sequences are available.

Staurolemma Körb. 1867, *Pannariaceae*, *Peltigerales*, *Lichinomycetes*, three species, type: *S. dalmaticum* Körb., asexual morph unknown, lichenized, terrestrial, see Wedin et al. (2009b; taxonomy), Jørgensen (2010; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Bendiksby et al. (2014; long-distance dispersal), Dixon et al. (2014; mapping), Ekman et al. (2014; taxonomy), Otálora et al. (2013, 2014; revised generic classification), Tapper et al. (2014; endemics on granite), Boutabia et al. (2015; floristic), Paoli et al. (2015; indicator species), Lücking et al. (2017a; classification), sequences are available.

Stauronema (Sacc.) Syd., P. Syd. & E.J. Butler 1916, *Ascomycota* genera *incertae sedis*, four species, type: *S. cruciferum* (Ellis) Syd., P. Syd. & E.J. Butler, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stauronematopsis Abbas, B. Sutton & Ghaffar 2002, *Ascomycota* genera *incertae sedis*, one species, type: *S. sojae* (Uecker & Kulik) Abbas, B. Sutton & Ghaffar, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Staurophoma Höhn. 1907, *Ascomycota* genera *incertae sedis*, one species, type: *S. panici* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Hong Kong, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Staurothele Norman 1853, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 40 species, type: *S. clopima* (Wahlenb.) Th. Fr., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Gueidan et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Stearophora L. Mangin & Viala 1905, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. radicicola* L. Mangin & Viala, asexual morph unknown, saprobes, terrestrial, North Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Steganopycnis Syd. & P. Syd. 1916, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. oncospermatis* Syd. & P. Syd., see Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Sordariomycetes* genera *incertae sedis*), the genus was not accepted as a genus in Kirk et al. (2008, 2013).

Stegasphaeria Syd. & P. Syd. 1916, *Mesnieraceae*, *Dothideomycetes* families *incertae sedis*, five species, type: *S. pavonina* Syd. & P. Syd., see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Mesnieraceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stegobolus Mont. 1845, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 15 species, type: *S. berkeleyanus* Mont., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Sipman et al. (2012; key, Costa Rica), Rivas Plata et al. (2012a; phylogeny), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); sequences are available.

Stegonsporiopsis Van Warmelo & B. Sutton 1981, *Ascomycota* genera *incertae sedis*, one species, type: *S. cenangioides* (Ellis & Rothr.) Van Warmelo & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Hong Kong, South America, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stegonsporium Corda 1827, *Stilbosporaceae*, *Diaporthales*, *Sordariomycetes*, eight species, type: *S. pyriforme* (Hoffm.) Corda, asexual morph coelomycetous, saprobes, terrestrial, worldwide, see

Voglmayr and Jaklitsch (2008, 2014; phylogeny, taxonomy, holomorph), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2016b, 2017; taxonomy, outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Stegophorella Petr. 1947, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. lagerheimii* Petr., asexual morph unknown, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stegothyrium Höhn. 1918, *Dothideomycetes* genera *incertae sedis*, two species, type: *S. denudans* (Rehm) Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wu et al. (2011) and Hyde et al. (2013) did not accept as *Microthyriaceae*, Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Steinera Zahlbr. 1906, *Koerberiaceae*, *Peltigerales*, *Lecanoromycetes*, four species, type: *S. molybdoplaca* (Nyl.) Zahlbr., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Spribille and Muggia (2013; evolutionary), Lücking et al. (2017a; classification), sequences are available.

Steineropsis T. Sprib. & Muggia 2010, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, one species, type: *S. alaskana* T. Sprib. & Muggia, lichenized, Europe, Africa, mostly along the Atlantic coast, see Spribille et al. (2010; taxonomy), Spribille and Muggia (2013; phylogenetics), Schneider et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Steinia Körb., 1873, *Aphanopsidaceae*, *Pezizomycotina* families *incertae sedis*, three species, type: *S. luridescens* Körb., asexual morph unknown, lichenized, terrestrial, European distribution, see Lumbsch and Huhndorf (2010; outline), Kärnefelt et al. (2012; systematic, biodiversity), Printzen et al. (2012; partial sequencing), Kirk et al. (2013; genus accepted), Czarnota and Hernik (2014; ecology), Yatsyna and Motiejūnaitė (2015; new contributions), Kondratyuk et al. (2015b; molecular phylogeny), Lücking et al. (2017a; classification); sequences are available.

Stellarangia Frödén, Arup & Søchting 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *S. elegantissima* (Nyl.) Frödén, Arup & Søchting, lichenized, see Arup et al. (2013; taxonomy), Gaya et al. (2015; adaptations, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Stellatospora Tad. Ito & Nakagiri 1994, *Sordariaceae*, *Sordariales*, *Sordariomycetes*, one species, type: *S. terricola* Tad. Ito & Nakagiri asexual morph unknown, saprophytic, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: IFO H-12166, ex-type cultures of type: NBRC 32597.

Stellifraga Alstrup & Olech 1993, *Ascomycota* genera *incertae sedis*, one species, type: *S. cladoniicola* Alstrup & Olech, asexual morph unknown, saprobes, terrestrial, Spitsbergen, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stellomyces Morgan-Jones, R.C. Sinclair & Eicker 1987, *Ascomycota* genera *incertae sedis*, two species, type: *S. suidafrikanus* Morgan-Jones, R.C. Sinclair & Eicker, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stellopeltis Bat. & A.F. Vital 1959, *Ascomycota* genera *incertae sedis*, two species, type: *S. philodendricola* (Bat.) Bat. & A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stellosetifera Matsush. 1996, *Sordariomycetes* genera *incertae sedis*, one species, type: *S. malaysiana* Matsush., asexual morph unknown, saprobes, terrestrial, Malaysia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stellospora Alcorn & B. Sutton 1984, *Ascomycota* genera *incertae sedis*, two species, type: *S. appendiculellae* Alcorn & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stellothyriella Bat. & Cif. 1959, *Ascomycota* genera *incertae sedis*, two species, type: *S. graminis* (Wehm.) Bat. & Cif., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stemmatomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type: *S. anoplischii* (Thaxt.) Thaxt., asexual morph unknown, biotrophic on Coleoptera (Elateridae), USA, see Lumbsch

and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stemphylium Wallr. (= *Pleospora* Rabenh. ex Ces. & De Not. 1863 *fide* Wijayawardene et al. 2014c), *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, 56 species, type: *S. botryosum* Wallr., hyphomycetous, sexual morph formerly known in *Pleospora*, saprobes or pathogens in terrestrial habitats, worldwide, see Seifert et al. (2011; morphology), Zhang et al. (2012e; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Ariyawansa et al. (2015c; taxonomy, phylogeny), Rossman et al. (2015b; nomenclature), Crous et al. (2016b; new species, phylogeny), sequences are available.

Stenella Syd. 1930, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, c. 140 species, type: *S. araguata* Syd., hyphomycetous, saprobes, pathogens, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2014; phylogeny), cultures and sequences are available.

Stenhammarella Hertel 1967, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *S. turgida* (Ach.) Hertel, asexual morph unknown, lichenized, terrestrial, Europe, Central Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures available for the type: Stetur3861.

Stenocarpella Syd. & P. Syd. 1917, *Diaporthaceae*, *Diaporthales*, *Sordariomycetes*, two species, type: *S. zeae* Syd. & P. Syd., coelomycetous, sexual morph unknown, pathogens, terrestrial, worldwide, see Wicklow et al. (2011; bioactive metabolites), Wijayawardene et al. (2012, 2016b; phylogeny, taxonomy), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for the type: NRRL:13609.

Stenocephalopsis Chamuris & C.J.K. Wang 1998, *Ascomycota* genera *incertae sedis*, one species, type: *S. subalutacea* (Peck) Chamuris & C.J.K. Wang, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stenocladiella Marvanová & Descals 1987, *Ascomycota* genera *incertae sedis*, one species, type: *S. neglecta* (Marvanová & Descals) Marvanová & Descals, hyphomycetous, sexual morph unknown, saprobes, aquatic, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stenocybe Nyl. ex Körb. 1855, *Mycocaliciaceae*, *Mycocaliciales*, *Eurotiomycetes*, 14 species, type: *S. byssacea* (Fr.) Nyl. ex Körb., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Stenospora Deighton 1969, *Ascomycota* genera *incertae sedis*, one species, type: *S. uredinicola* Deighton, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stephanocyclos Hertel 1983, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *S. henssenianus* Hertel, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Schmull et al. (2011; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Stephanonectria Schroers & Samuels 1999, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. keithii* (Berk. & Broome) Schroers & Samuels, asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Stephanotheca Syd. & P. Syd. 1914, *Dothideomycetes* genera *incertae sedis*, four species, type: *S. micromera* Syd. & P. Syd., asexual morph unknown, foliar epiphytes, terrestrial, India, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jayawardena et al. (2014; morphology), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable, holotype of the species S-F6581.

Stephembruneria R.F. Castañeda 1988, *Ascomycota* genera *incertae sedis*, one species, type: *S. elegans* R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stephensia Tul. & C. Tul. 1845 (= *Densocarpa* Gilkey 1954; = *Elderia* McLennan 1961 *fide* Species Fungorum 2017), *Pezizales* genera *incertae sedis*, *Pezizomycetes*, seven species, type: *S. bombycina* (Vittad.) Tul., asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wang et al. (2016c; DNA, phylogeny), sequences are available.

Stereocaulon Hoffm. 1795. *Stereocaulaceae*, *Lecanorales*, *Lecanoromycetes*, 140 species, type:

S. paschale (L.) Hoffm., asexual morph unknown, lichenized, terrestrial, worldwide, see Khare et al. (2009; taxonomy), Morita et al. (2009; antimitotic study), Seo et al. (2009b; bioactivity study), Wedin et al. (2009b; molecular), Fryday (2010; taxonomy), Hafellner et al. (2010; biodiversity), Huang (2010; environment), Lumbsch and Huhndorf (2010; outline), Melechin (2010; taxonomy), Goel et al. (2011; antifungal study), Hansen (2011; taxonomy), Ismed et al. (2012; chemistry), Bhattarai et al. (2013; bioactivity study), Kim et al. (2013; antimicrobial study), Kirk et al. (2013; genus accepted), Rincon-Espitia and Mateus (2013; taxonomy), Singh et al. (2013b; physiology), Högnabba et al. (2014; phylogeny), Meunier et al. (2014; environment), Nayaka and Saxena (2014; physiology), Oset and Kukwa (2014; typification), Ranković et al. (2014; bioactivity), Oset (2015; taxonomy), Doering et al. (2016; taxonomy), Kossowska and Szczepańska (2016; taxonomy), Lücking et al. (2017a; classification), Shukla et al. (2016; amino acids), sequences are available.

Stereocrea Syd. & P. Syd. 1917, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *S. schizostachyi* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, paleotropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: CUP 067858, cultures and sequences are unavailable.

Stereosphaeria Kirschst. 1939, *Sordariomycetes* genera *incertae sedis*, two species, type: *S. phloeophila* Kirschst., widespread in temperate regions, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a), one sequence is available.

Sterigmatobotrys Oudem. 1886, *Pleurotheciaceae*, *Pleurotheciales*, *Sordariomycetes*, three species, type: *S. elata* (Sacc.) Oudem., hyphomycetous, sexual morph unknown, saprobes, terrestrial, north temperate, see and Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available but lacking for the type.

Stevensonula Petr. 1952, *Ascomycota* genera *incertae sedis*, one species, type: *S. ciliata* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, New Caledonia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stichomyces Thaxt. 1901, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *S. conosomatis* Thaxt., asexual morph unknown, biotrophic on Coleoptera (Staphylinidae), Europe, Africa, USA, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sticta (Schreb.) Ach. 1803, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, c. 200 species, type: *S. sylvatica* (Huds.) Ach., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Moncada and Lücking (2012; new species), Moncada et al. (2013b; new species), Lücking et al. (2017a; classification), cultures and sequences are available.

Stictis Pers. 1800, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, four species, type: *S. radiata* (L.) Pers., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures available for type: AFTOL-ID 398, MW6493, P164, F907E267.

Stictographa Mudd 1861, *Asterinales* genera *incertae sedis*, *Dothideomycetes*, one species, type: *S. lentiginosa* (Lyell ex Leight.) Mudd, lichenicolous, cosmopolitan, see Ertz and Diederich (2015; taxonomy, phylogeny), sequences are available.

Stictopatella Höhn. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *S. euonymi* (Desm.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stictosepta Petr. 1964, *Ascomycota* genera *incertae sedis*, one species, type: *S. cupularis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stictospora Cif., 1957, *Stictidaceae*, *Ostropales*, *Ostropomycetes*, one species, type: *S. oleae* (De Not.) Cif., asexual morph unknown, lichenized, terrestrial, see Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stigmatellina Bat. & H. Maia 1960, *Ascomycota* genera *incertae sedis*, one species, type: *S. epilobii* Bat. & H. Maia, coelomycetous, sexual morph unknown, saprobes, terrestrial, Belgium, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stigmatochroma Marbach, 2000, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, nine species, type: *S. epimarta* (Nyl.) Marbach, asexual morph unknown, lichenized, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Cavalcante (2012; comparative studies), Gaya et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Giralt et al. (2014; new species), Logesh et al. (2015; floristics), Mohabe et al. (2015; new species), Prieto and Wedin

(2016; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Stigmatodiscus Voglmayr & Jaklitsch 2016, *Stigmatodiscaceae*, *Stigmatodiscales*, *Dothideomycetes*, two species, type: *S. enigmaticus* Voglmayr & Jaklitsch, asexual morph coelomycetous, saprobes, Europe, see Voglmayr et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype: WU 35914, cultures and sequences are available.

Stigmatodothis Syd. & P. Syd. 1914, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. palawanensis* Syd. & P. Syd., asexual morph unknown, saprobes, terrestrial, Philippines, Australia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013; did not recognize this genus as in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline) cultures and sequences are unavailable.

Stigmatomyces H. Karst. 1869, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 145 species, type: *S. muscae* (Peyr.) H. Karst., asexual morph unknown, biotrophic on Diptera, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossi and Leonardi (2012, most recent species descriptions Africa), sequences are available but lacking for the type.

Stigmatophragmia Tehon & G.L. Stout 1929, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. sassafrasicola* Tehon & G.L. Stout, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Hyde et al. (2013; did not recognize this genus as in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stigmatula (Sacc.) Syd. & P. Syd. 1901, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, ten species, type: *S. sutherlandiae* (Kalchbr. & Cooke) Syd. & P. Syd., saprobes, temperate, see Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stigmea Fr. 1836, *Ascomycota* genera *incertae sedis*, one species, type: *S. submaculans* Mont., saprobes, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stigmella Lév. 1842, *Ascomycota* genera *incertae sedis*, 28 species, type: *S. dryina* (Corda) Lév., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b; outline, taxonomy), Kirk et al. (2013; genus accepted), Wang et al. (2013e; new species, China), cultures and sequences are unavailable.

Stigmidium Trevis. 1860, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *S. schaereri* (A. Massal.) Trevis., lichenicolous or lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Stigmochora Theiss. & Syd. 1914, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, twelve species, type: *S. controversa* (Starbäck) Theiss. & Syd., saprobes, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stigmopeltis Syd. 1927, *Ascomycota* genera *incertae sedis*, two species, type: *S. roupalae* Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Central America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stilbella Lindau 1900, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *S. fimetaria* (Pers.) Lindau, hyphomycetous, sexual morph unknown, from soil and dung, saprobes, worldwide, see Mazzaferro et al. (2010; secondary metabolites), Seifert et al. (2011; morphology), Summerbell et al. (2011; phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Stilbellula Boedijn 1951, *Ascomycota* genera *incertae sedis*, one species, type: *S. pallida* Boedijn, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stilbocrea Pat. 1900, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. dussii* Pat., asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Sung et al. (2008; DNA), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Stilbodendron Syd. & P. Syd. 1916, *Ascomycota* genera *incertae sedis*, one species, type: *S. camerunense* Syd. & P. Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stilbohypoxylon Henn. 1902, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, ten species, type: *S. moelleri* Henn., asexual morph unknown, terrestrial, saprobes, subtropical, see Hsieh et al. (2010; DNA, phylogeny), Lumbsch and

Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Stilbopeziza Speg. 1908, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *S. yerbae* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stilbophoma Petr. 1942, *Ascomycota* genera *incertae sedis*, one species, type: *S. microspora* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, India, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stilbospora Pers. 1794 (= *Prosthecium* Fresen. 1852 *fide* Rossman et al. 2015a; Voglmayr and Jaklitsch 2014), *Stilbosporaceae*, *Diaporthales*, *Sordariomycetes*, 20 species, type: *S. macrosperma* Pers., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Voglmayr and Jaklitsch (2008, 2014; phylogeny, taxonomy, holomorph), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2016b, 2017; taxonomy, outline, phylogeny), cultures and sequences are available.

Stioclettia Dennis 1975, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. luzulina* Dennis, asexual morph unknown, saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stirtonia A.L. Sm. 1926, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, 25 species, type: *S. obvallata* A.L. Sm., lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are available.

Stirtoniella D.J. Galloway, Hafellner & Elix 2005, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *S. kelica* (Stirt.) D.J. Galloway, Hafellner & Elix, asexual morph unknown, lichenized, terrestrial, Australasia, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Stomatogene Theiss. 1917, *Perisporiopsidaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *S. agaves* (Ellis & Everh.) Theiss., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stomatogenella Petr. 1955, *Sordariomycetes* genera *incertae sedis*, two species, type: *S. mirabilis* Petr., asexual morph unknown, saprobes, terrestrial, North Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stomiopeltis Theiss. 1914, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, 25 species, type: *S. aspersa* (Berk.) Theiss., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for type.

Stomiopeltopsis Bat. & Cavalc. 1963, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, two species, type: *S. linacearum* Bat. & Cavalc., asexual morph unknown, saprobes, terrestrial, Brazil, New Mexico, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stomiotheca Bat. 1959, *Micropeltidaceae*, *Microthyriales*, *Dothideomycetes*, two species, type: *S. amazonensis* Bat., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Wu et al. (2011; new combination), Hyde et al. (2013; accepted as a genus in *Micropeltidaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stouffera Kovács & Trappe 2011, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, four species, type: *S. longii* (Gilkey) Kovács & Trappe, asexual morph unknown, hypogeous, terrestrial, Argentina, USA, see Kovács et al. (2011b; taxonomy, phylogeny), sequences and cultures are unavailable.

Strangospora Körb. 1860, *Strangosporaceae*, *Pezizomycotina* families *incertae sedis*, nine species, type: *S. pinicola* (A. Massal.) Körb., asexual morph unknown, lichenized, terrestrial distribution, Lumbsch and Huhndorf (2010; outline), Stepanchikova et al (2011; new records), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Rogers et al. (2015; lichen monitoring), Lücking et al. (2017a; classification), Urbanavichus and Ismailov (2016; new records), sequences are available.

Strasseria Bres. & Sacc. 1902, *Ascomycota* genera *incertae sedis*, one species, type: *S. carpophila* Bres. & Sacc., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Strasseriopsis B. Sutton & Tak. Kobay. 1970, *Ascomycota* genera *incertae sedis*, one species, type:

S. tsugae (Tak. Kobay.) B. Sutton & Tak. Kobay., coelomycetous, sexual morph unknown, saprobes, terrestrial, Japan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stratiphoromyces Goh & K.D. Hyde 1998, *Ascomycota* genera *incertae sedis*, one species, type: *S. brunneisporus* Goh & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stratisporella Hafellner 1979, *Patellariaceae*, *Patellariales*, *Dothideomycetes*, one species, type: *S. episemoides* (Nyl.) Hafellner, asexual morph unknown, lichenicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in Patellariaceae), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are unavailable.

Strattonia Cif. 1954, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, nine species, type: *S. tetraspora* (R. Stratton) Cif., asexual morph unknown, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Sordariales* genera *incertae sedis*), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Streimannia G. Thor 1991, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, one species, type: *S. varieseptata* G. Thor., lichenized, terrestrial, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); sequences unavailable.

Streimanniella S.Y. Kondr., Kärnefelt, A. Thell, Elix & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, four species, type: *S. michelagoensis* (Elix, S.Y. Kondr. & Kärnefelt) S.Y. Kondr., Kärnefelt, A. Thell, Elix, J. Kim, A.S. Kondr. & Hur, lichenized, see Kondratyuk et al. (2015c; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Strelitziana Arzanlou & Crous 2006, *Strelitzianaceae*, *Chaetothyriales*, *Eurotiomycetes*, seven species, type: *S. africana* Arzanlou & Crous, hyphomycetous, sexual morph unknown, saprobes, cosmopolitan, see Zhang et al. (2009b; new species), Crous et al. (2010b, 2015e; new species, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Streptotinia Whetzel 1945 (= *Streptobotrys* Hennebert 1973 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *S. arisaematis* Whetzel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Striatibotrys L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *S. eucylindrospora* (D.W. Li) L. Lombard & Crous, asexual morph hyphomycetous, saprobes, from soil, terrestrial, cosmopolitan, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), ex-type of the type: MUCL 9483.

Striaticonidium L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *S. cinctum* (Corda) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: CBS H-22471, CBS 932.69.

Striatodecospora D.Q. Zhou, K.D. Hyde & B.S. Lu. 2000, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. bambusae* D.Q. Zhou, K.D. Hyde & B.S. Lu., asexual morph unknown, on dead bamboo culm, see Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Striatosphaeria Samuels & E. Müll. 1979, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *S. codinaeaphora* Samuels & E. Müll., asexual morph unknown, saprobes, Central and South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available for the type.

Strickeria Körb. 1865, *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, ten species, type: *S. kochii* Körb., asexual morph coelomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in Sordariales genera incertae sedis), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; taxonomy, phylogeny, holomorph), cultures available for the type: C149, C138.

Strigopodia Bat. 1957, *Euantennariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *S. piceae* Bat., asexual morph unknown, saprobes,

terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Euantennariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Strigula Fr. 1823, *Strigulaceae*, *Strigulales*, *Dothideomycetes*, one species, type: *S. smaragdula* Fr., asexual morph unknown, lichenized, foliicolous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Nelsen et al. (2011b; DNA, phylogeny), Hyde et al. (2013; accepted as a genus in *Strigulaceae*), Jayalal et al. (2013b; DNA, South Korea), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Lücking et al. (2017a; classification), sequences are available.

Striosphaeropsis Verkley & Aa 1997, *Ascomycota* genera *incertae sedis*, one species, type: *S. mirabilis* Verkley & Aa, coelomycetous, sexual morph unknown, saprobes, terrestrial, Papua New Guinea, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Strobiloscypha N.S. Weber & Denison 1995, *Chorioactidaceae*, *Pezizales*, *Pezizomycetes*, two species, type: *S. keliae* N.S. Weber & Denison, asexual morph unknown, saprobes, terrestrial, Montenegro, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Perić et al. (2013; new species, DNA, phylogeny), sequences are available.

Stromaster Höhn. 1930, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, twelve species, type: *S. tuberculatus* (Pat.) Höhn., saprobes, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Stromatella Henssen 1989, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *S. bermudana* (Riddle) Henssen, lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Stromatinia (Boud.) Prill. 1907, *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *S. rapulum* (Bull.) Boud., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence available for the type: Z73801 (ITS).

Stromatocrea W.B. Cooke 1952, *Ascomycota* genera *incertae sedis*, one species, type: *S. cerebriformis* W.B. Cooke, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, treated as a genus in *Bionectriaceae* or *Hypocreaceae*), cultures and sequences are unavailable.

Stromatographium Höhn. 1907 (= *Fluviostroma* Samuels & E. Müll. 1980; = *Stromatostilbella* Samuels & E. Müll. 1980 *fide* et al. 2016c; Species Fungorum 2017), *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, one species, type: *S. stromaticum* (Berk.) Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), et al. (2016c; nomenclature), cultures and sequences are unavailable.

Stromatonectria Jaklitsch & Voglmayr 2011, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. caraganae* (Höhn.) Jaklitsch & Voglmayr, asexual morph coelomycetous, saprobes, terrestrial, Austria, see Jaklitsch and Voglmayr (2011; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; phylogeny), ex-epitype of the type: CBS 127387.

Stromatoneurospora S.C. Jong & E.E. Davis. 1973, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. phoenix* S.C. Jong & E.E. Davis., tropical, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Senanayake et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), a sequence is available.

Stromatopogon Zahlbr. 1897, *Ascomycota* genera *incertae sedis*, three species, type: *S. baldwinii* Zahlbr., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stromatopycnis A.F. Vital 1956, *Ascomycota* genera *incertae sedis*, one species, type: *S, rosetum* A.F. Vital, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stromatoseptoria Quaedvl., Verkley & Crous 2013, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *S. castaneicola* (Desm.) Quaedvl., Verkley & Crous, coelomycetous, sexual morph unknown, pathogens, terrestrial, Austria, France, Netherlands, one species, see Quaedvlieg et al. (2013; morphology, phylogeny), holotype PC0084574, reference specimens: CBS H-21200, culture CBS 102322; requires epitypification.

Stromatostysanus Höhn. 1919, *Ascomycota* genera *incertae sedis*, three species, type: *S. caprifoliorum* (Desm.) Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see

Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stromatothecia D.E. Shaw & D. Hawksw. 1971, *Odontotemataceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *S. nothofagi* D.E. Shaw & D. Hawksw, on bark, Papua New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, holotype of type: K(M)-IMI 151852a.

Stromatothelium Trevis. 1861, *Pyrenulales* genera *incertae sedis*, *Eurotiomycetes*, four species, need typification, hyphomycetous, sexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Strongylothallus Bat. & Cif. 1959, *Ascomycota* genera *incertae sedis*, one species, type: *S. scutatus* Bat., Cif. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Strossmayeria Schulzer 1881 (= *Pseudospiropes* M.B. Ellis 1971 *fide* Johnston et al. 2014b), *Helotiales* genera *incertae sedis*, *Leotiomycetes*, 16 species, type: *S. rackii* Schulzer, asexual morph hyphomycetous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hustad and Miller (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Johnston et al. (2014b) nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are available but lacking for the type.

Stuartella Fabre 1879, *Dothideomycetes* genera *incertae sedis*, three species, type: *S. formosa* Fabre, asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Stygiomyces Coppins & S.Y. Kondr. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *S. galliformis* Coppins & S.Y. Kondr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Tasmania, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: HO 34310, cultures and sequences are unavailable.

Stylaspergillus B. Sutton, Alcorn & P.J. Fisher 1982, *Ascomycota* genera *incertae sedis*, one species, type: *S. laxus* B. Sutton, Alcorn & P.J. Fisher, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Stylodothis Arx & E. Müll. 1975, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, two species, type: *S. puccinioides* (DC.) Arx & E. Müll., asexual morph unknown, saprobes, terrestrial, Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; accepted as a genus in *Dothideaceae*), Wijayawardene et al. (2014c; outline), sequences are available.

Stylonectria Höhn. 1915, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *S. applanata* Höhn., sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Gräfenhan et al. (2011; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Subbaromyces Hesselt. 1953, *Ophiostomataceae*, *Ophiostomatales*, *Sordariomycetes*, two species, type: *S. splendens* Hesselt., asexual morph unknown, saprobes, North America, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available.

Suberoteratosphaeria Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *S. suberosa* (Crous, F.A. Ferreira, Alfenas & M.J. Wingf.) Quaedvl. & Crous, asexual morph unknown, pathogens, Australia, Brazil, Uruguay, see Quaedvlieg et al. (2014; morphology, phylogeny), holotype and ex-type culture of the type: PREM 51082, CPC 515.

Subglobosporium Doilom & K.D. Hyde 2016, *Pseudocoleodictyosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. tectonae* Doilom & K.D. Hyde, saprobes, terrestrial, see Doilom et al. (2017; taxonomy), ex-type: MFLUCC 12–0393, MKT 066, ICMP 21258; holotype of type: MFLU 15-3560.

Subhysteropycnis Wedin & Hafellner 1998, *Ascomycota* genera *incertae sedis*, one species, type: *S. maculiformans* Wedin & Hafellner, lichenized, lichenicolous, terrestrial, restricted distribution, see Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), Zhurbenko and Tugi (2013; records), Wijayawardene et al. (2017; outline), sequences are unavailable.

Submersisphaeria K.D. Hyde 1996, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, five species, type: *S. aquatica* K.D. Hyde, asexual morph unknown, terrestrial, saprobes, aquatic, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: BRIP 22743, one putative strain is available of *S. aquatica*.

Subplenodomus Gruyter, Aveskamp & Verkley 2012, *Leptosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *S. violicola* (P. Syd.) Gruyter, Aveskamp & Verkley coelomycetous, saprobes, terrestrial, worldwide, see de Gruyter et al. (2012; morphology; phylogeny), Wijayawardene et al. (2014c, 2017; outline), Ariyawansa et al. (2015b; phylogeny), Tibpromma et al. (2017b; new species), cultures and sequences are available.

Subramaniomyces Varghese & V.G. Rao 1980, *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, three species, type: *S. indicus* Varghese & V.G. Rao, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Hongsanan et al. (2017a; phylogeny, evolution), cultures and sequences are available but lacking for the type.

Subramaniula Arx 1985, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *S. thielavioides* (Arx, Mukerji & N. Singh) Arx, asexual morph unknown, saprobes, opportunistic pathogen on human, terrestrial, India, South Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Ahmed et al. (2016; new species, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 560.84, CBS 122.78.

Subsessila C.G. Lin & K.D. Hyde 2017, *Beltraniaceae*, *Amphisphaeriales*, *Sordariomycetes*, one species, type: *S. turbinata* C.G. Lin & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Thailand, see Lin et al. (2017; taxonomy, phylogeny), holotype of the type: MFLU 15-3271, cultures and sequences are available.

Subulispora Tubaki 1971, *Ascomycota* genera *incertae sedis*, eight species, type: *S. procurvata* Tubaki, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, tropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Sugiyamaella Kurtzman & Robnett 2007, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, 20 species, type: *S. smithiae* (Giménez-Jurado) Kurtzman & Robnett, asexual reproduction is by multilateral budding and through formation of blastoconidia, saprophytic, insect frass in trees, soil, worldwide, Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Sugiyamaemyces I.I. Tav. & Balazuc 1989, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. oroussetii* I.I. Tav. & Balazuc, asexual morph unknown, biotrophic, only known from *Clidicus formicarius* (Coleoptera: Scydmaenidae), Malaysian Borneo, a second species on *Clidicus laticeps* (from India) is suggested but not formally described because of lack of material, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Suhomyces M. Blackwell & Kurtzman 2016, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 24 species, type: *S. tanzawaensis* (Nakase & Itoh) M. Blackwell & Kurtzman, asexual reproduction is by multilateral budding, saprophytic, soil, insects, moss, gum exudates of black cherry, maize kernels, rotted mushroom, worldwide, see Kurtzman et al. (2016; taxonomy, phylogeny), sequences are available.

Sulcaria Bystrek 1971, *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, five species, four variety, type: *S. sulcata* (Lév.) Bystrek, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2012c; chemistry), Kirk et al. (2013; genus accepted), Myllys et al. (2014; taxonomy), Hisayoshi et al. (2015; molecular), Lücking et al. (2017a; classification); sequences are available.

Sulcatispora Kaz. Tanaka & K. Hiray. 2015, *Sulcatisporaceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *S. acerina* Kaz. Tanaka & K. Hiray., asexual morph coelomycetous, saprobes, terrestrial, Japan, see Tanaka et al. (2015; taxonomy, phylogeny), Wijayawardene et al. (2016b, 2017; morphology, phylogeny), holotype and ex-type of the type: HHUF 30449, CBS 139703.

Sulcatistroma A.W. Ramaley 2005, *Calosphaeriaceae*, *Calosphaeriales*, *Sordariomycetes*, one species, type: *S. nolinae* A.W. Ramaley, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Sulcopyrenula H. Harada 1999, *Pyrenulaceae*, *Pyrenulales*, *Eurotiomycetes*, four species, type: *S. staurospora* (Tuck.) H. Harada, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Aptroot (2012; new species), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Sulcosporium Phook. & K.D. Hyde 2015, *Halotthiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. thailandicum* Phook. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 11-0243, MFLUCC 12-0004.

Sungaiicola Fryar & K.D. Hyde 2004, *Sordariomycetes* genera *incertae sedis*, two species, type: *S. bactrodesmiella* Fryar & K.D. Hyde, asexual morph unknown, saprobes, marine, Brunei, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b;

outline), holotype of the type: HKU (M) 15201, cultures and sequences are unavailable.

Superstratomyces van Nieuwenhuijzen, Miądl. & Samson 2016, *Superstratomycetaceae*, *Superstratomycetales*, *Dothideomycetes* three species, type: *S. albomucosus* van Nieuwenhuijzen & Samson, coelomycetous, sexual morph unknown, see van Nieuwenhuijzen et al. (2016; taxonomy), cultures and sequences are available.

Surculiseries Okane, Nakagiri & Tad. Ito 2001, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *S. rugispora* Okane, Nakagiri & Tad., sexual morph unknown, endophytic on mangroves, saprophytic, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: IFO H-12236, ex-type cultures of type: NBRC 33167.

Suttonina H.C. Evans 1984, *Ascomycota* genera *incertae sedis*, one species, type: *S. guatemaltica* H.C. Evans, coelomycetous, sexual morph unknown, saprobes, terrestrial, Gautemala, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Suttonomyces Wijayaw., Camporesi & K.D. Hyde 2015, *Massarinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *S. clematidis* Wijayaw., Camporesi & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, Italy, see Tanaka et al. (2015; phylogeny), Wijayawardene et al. (2015, 2016b; taxonomy, phylogeny), holotype and ex-type of the type: HHUF 28661, JCM 13131.

Swampomyces Kohlm. & Volkm.-Kohlm. 1987, *Etheirophoraceae*, *Torpedosporales*, *Sordariomycetes*, two species, type: *S. armeniacus* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, mangroves, Australia, Belize, Brunei, Egypt, North Sumatra, Papua New Guinea, Philippines, Saudi Arabia, South Africa, Thailand, see Besitulo et al. (2010; diversity), Sakayaroj et al. (2011b; diversity), Abdel-Wahab et al. (2014; diversity), Jones et al. (2014, 2015; outline, phylogeny, morphology, re-classification), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Syamithabeeja Subram. & Natarajan 1976, *Ascomycota* genera *incertae sedis*, one species, type: *S. girisa* Subram. & Natarajan, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sydowia Bres., 1895, *Dothideaceae*, *Dothideales*, *Dothideomycetes*, 19 species, type: *S. gregaria* Bres., asexual morph coelomycetous, parasitic or saprobes on conifer plants or branches and wood, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Thambugala et al. (2014a; taxonomy), Wijayawardene et al. (2014c; outline), holotype of type: S-F6473, cultures and sequences are available.

Sydowiella Petr. 1923, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, four species, type: *S. fenestrans* (Duby) Petr., asexual morphs unknown, saprobes, terrestrial, Europe, North America, see Marincowitz et al. (2008; new species), Lumbsch and Huhndorf (2010; outline), Kruys and Castlebury (2012; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2017, new species, placement), cultures available for the type: CBS 125530.

Sylviacollaea Cif. 1963, *Ascomycota* genera *incertae sedis*, one species, type: *S. termitaria* Cif., coelomycetous, sexual morph unknown, on termites, terrestrial, Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Symbiotaphrina Kühlw. & Jurzitza ex W. Gams & Arx 1980, *Xylonomycetaceae*, *Xylonomycetales*, *Xylonomycetes*, two species, type: *S. buchneri* Gräbner ex W. Gams & Arx, coelomycetous, sexual morph unknown, on termites, terrestrial, Asia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Gazis et al. (2016; phylogeny), cultures and sequences are unavailable.

Symphaeophyma Speg. 1912, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *S. subtropicale* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Symphaster Theiss. & Syd. 1915, *Dothideomycetes* genera *incertae sedis*, one species, type: *S. gesneraceae* (Henn.) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, South Africa, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Symphyosirinia E.A. Ellis 1956 (= *Symphyosirella* Seifert 2009 *fide* Johnston et al. 2014b), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, six species, type: *S. galii* E.A. Ellis, asexual morph formerly known in *Symphyosirella*, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature),

Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Symphysos Bat. & Cavalc. 1967, *Ascomycota* genera *incertae sedis*, one species, type: *S. sapindaceifolii* Bat. & Cavalc., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Symplectromyces Thaxt. 1908, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. vulgaris* (Thaxt.) Thaxt., asexual morph unknown, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Sympodiella W.B. Kendr. 1958, *Ascomycota* genera *incertae sedis*, one species, type: *S. acicola* W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Cuba, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are available (unpublished).

Sympodiocladium Descals 1982, *Ascomycota* genera *incertae sedis*, one species, type: *S. frondosum* Descals, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Sympodioclathra Voglmayr 1997, *Ascomycota* genera *incertae sedis*, one species, type: *S. globosa* Voglmayr, hyphomycetous, sexual morph unknown, saprobes, aquatic, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), holotype of the type: WU 17019, cultures and sequences are unavailable.

Sympodioplanus R.C. Sinclair & Boshoff 1997, *Ascomycota* genera *incertae sedis*, one species, type: *S. capensis* R.C. Sinclair & Boshoff, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), holotype: PREM 55315, cultures and sequences are unavailable.

Sympodomyces R.K. Benj. 1973, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. pentacellularis* R.K. Benj., asexual morph unknown, biotrophic on Coleoptera (Tenebrionoideae), Papua-New Guinea, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Sympoventuria Crous & Seifert 2007, *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, one species, type: *S. capensis* Crous & Seifert, asexual morph unknown, worldwide, see Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; phylogeny), Hyde et al. (2013; accepted as a genus in *Sympoventuriaceae*), Wijayawardene et al. (2014c; outline), sequences are available.

Synalissa Fr. 1825, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 39 species, type: *S. ramulosa* (Bernh.) Körb., asexual morph unknown, lichenized, terrestrial, see Dietrich and Buergi-Meyer (2010; taxonomy), Eichler et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Schultz and Moon (2011; taxonomy), Paukov and Teptina (2012; new record), de la Rosa et al. (2013; ecology), Kirk et al. (2013; genus accepted), Stordeur et al. (2015; new record), Lücking et al. (2017a; classification), sequences unavailable.

Synandromyces Thaxt. 1912, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, ten species, type: *S. telephani* Thaxt., no asexual state, biotrophic, hosts are Biphyllidae, Cryptophagidae, Cucujidae, Nitidulidae, and Tenebrionidae (Coleoptera: Cucujiformia), widespread but not in Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Synaptomyces Thaxt. 1912, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, type: *S. argentinus* Thaxt., no asexual state, biotrophic, only known from *Hydrochara* sp. [as *Hydrocharis*] (Coleoptera, Hydrophilidae), Argentina, two more species are suggested but not formally described, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Synaptospora Cain 1957, *Helminthosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, four species, type: *S. petrakii* Cain, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Miller et al. (2014; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), sequences are available but lacking for the type.

Synarthonia Müll. Arg. 1891, *Arthoniaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *S. bicolor* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Menezes et al. (2013a; new species), Joseph and Sinha (2015; taxonomy), Lücking et al. (2017a; classification, treated as *Arthoniales* genera *incertae sedis*), sequences are unavailable.

Synarthothelium Sparrius 2009, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, two species, type: *S. sipmanianum* Sparrius, lichenized, terrestrial, Venezuela, see Sparrius (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), holotype B Sipman 26697, cultures and sequences are unavailable.

Syncarpella Theiss. & Syd. 1915 (= *Syntholus* A.W. Ramaley & M.E. Barr 1997; Art. 59), *Cucurbitariaceae*, *Pleosporales*, *Dothideomycetes*, c. six species, type:

S. tumefaciens (Ellis & Harkn.) Theiss. & Syd., asexual morph coelomycetous, saprobes, terrestrial, cosmopolitn, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Cucurbitariaceae*), Doilom et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), in here we propose to consider *Syntholus* as a synonym of *Syncarpella*, ex-holotype type strains of type: NY, 1677.

Syncesia Taylor 1938 (= *Feigeana* Mies, Lumbsch & Tehler 1995 *fide* Ertz and Tehler 2011), *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, 27 species, type: *S. myrticola* (Fée) Tehler, terrestrial, see Lumbsch and Huhndorf (2010; outline), Ertz and Tehler (2011; phylogeny), Joshi et al. (2011a; new species), Kirk et al. (2013; genus accepted), Joseph et al. (2013; new record), Menezes et al. (2013a; new species), Ertz et al. (2010, 2015b, c; phylogeny), Cáceres and Aptroot (2016; inventory), Lücking et al. (2017a; classification), sequences are available.

Synchaetomella Decock & Seifert 2005, *Chaetomellaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *S. lunatospora* Decock, G. Delgado & Seifert, hyphomycetous, saprobes, terrestrial, Brazil, Singapore, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Crous et al. (2012c; taxonomy), Fiuza et al. (2015c; taxonomy), sequences are available for two species, compare with *Chaetomella*, *Sphaerographium*, holotype of type: MUCL 43804.

Synchronoblastia Uecker & F.L. Caruso 1988, *Ascomycota* genera *incertae sedis*, one species, type: *S. crypta* Uecker & F.L. Caruso, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Syncladium Rabenh. 1859, *Ascomycota* genera *incertae sedis*, one species, type: *S. nietneri* Rabenh., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Synnemacrodictys W.A. Baker & Morgan-Jones 2009, *Ascomycota* genera *incertae sedis*, one species, type: *S. stilboidea* (J. Mena & Mercado) W.A. Baker & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Synnemadiella Crous & M.J. Wingf. 2016, *Xylariales*, genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. eucalypti* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, with subverticillium-like synasexual morph, saprobes, terrestrial, Malaysia, see Crous et al. (2016a; new species, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22886, CPC 27637.

Synnemapestaloides T. Handa & Y. Harada 2004, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *S. rhododendri* T. Handa & Y. Harada, coelomycetes, sexual morph unknown, leaves and twigs of *Rhododendron brachycarpum*, Japan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype and ex-type of the type: HHUF26527, MAFF239201.

Synnemaseimatoides K. Matsush. & Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *S. nipponica* K. Matsush. & Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Synnematomyces Kobayasi 1981, *Ascomycota* genera *incertae sedis*, one species, type: *S. capitatus* Kobayasi, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available (unpublished).

Synnemellisia N.K. Rao, Manohar. & Goos 1989, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *S. hyalospora* N.K. Rao, Manohar. & Goos, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2016a; new species, phylogeny), cultures and sequences are available.

Synostomina andina Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *S. andina* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Synsphaeria Bonord. 1851, *Sordariomycetes*, genera *incertae sedis*, one species, type: *S. fumigata* Vuill., asexual morph unknown, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline).

Syphosphaera Dumort. 1822, *Ascomycota* genera *incertae sedis*, one species, type: *S. coronata* Dumort., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Syrropeltis Bat., J.L. Bezerra & Matta 1964, *Dothideomycetes* genera *incertae sedis*, one species, type:

S. xylopiae Bat., J.L. Bezerra & Matta, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Syspastospora P.F. Canon & D. Hawksw. 1982, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *S. parasitica* (Tul.) P.F. Cannon & D. Hawksw., fungicolous, widespread, terrestrial, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Hypocreaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are available, holotype of type: ? PC.

Systremmopsis Petr. 1923, *Ascomycota* genera *incertae sedis*, one species, type: *S. ribesia* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Szczawinskia A. Funk, 1984, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *S. tsugae* A. Funk, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Øvstedal and Gremmen (2010; new species), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Taeniolella S. Hughes 1958, *Kirschsteiniotheliaceae*, *Kirschsteiniotheliales*, *Dothideomycetes*, c. 40 species, type: *T. exilis* (P. Karst.) S. Hughes, sexual morph unknown, saprophytic, endophytic, lichenicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Ertz et al. (2016b; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Taeniolina M.B. Ellis 1976, *Ascomycota* genera *incertae sedis*, six species, type: *T. centaurii* (Fuckel) M.B. Ellis, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Zhang et al. (2012i; new species, China), Kirk et al. (2013; genus accepted), Prasher and Verma (2014; new species, India), cultures and sequences are unavailable.

Tainosphaeria F.A. Fernández & Huhndorf 2005, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, one species, type: *T. crassiparies* F.A. Fernández & Huhndorf, asexual morph unknown, saprobes, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Liu et al. (2016a; new species, phylogeny), Lu et al. (2016; new species), Perera et al. (2016b; new records in Thailand), sequence available for the type: AF466056 (beta tubulin).

Taiwanascus Sivan. & H.S. Chang 1997, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *T. tetrasporus* Sivan. & H.S. Chang asexual morph unknown, saprobes, lignicolous, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rajeshkumar and Rossman (2013; new species), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: IMI 364835, cultures and sequences are unavailable.

Takamatsuella U. Braun & A. Shi 2012, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, one species, type: *T. circinata* (Cooke & Peck) U. Braun & A. Shi, asexual morph unknown, biotrophic, obligate plant pathogens, terrestrial, North America, see Braun and Cook (2012; taxonomy), sequences are available, lectotype of type: NYS-F-762.

Talaromyces C.R. Benj. 1955 (= *Erythrogymnotheca* Yaguchi & Udagawa; = *Paratalaromyces* Matsush.; = *Penicillium* Link subgenus *Biverticillium* Dierckx; = *Penicillium* Link subgenus *Biverticillata-Symmetrica* Thom; = *Sagenoma* Stolk & G.F. Orr *fide* Samson et al. 2011), *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, c. 114 species, type: *T. flavus* (Klöcker) Stolk & Samson, terrestrial, but sometimes also isolated from aquatic habitats, associated with diverse substrates, including living or decaying plant material, soil, compost, dung, house dust, foodstuffs, leather, arthropods, rodents, air, cosmopolitan, the genus includes some clinically-relevant species, of which the most important is *Talaromyces marneffei* (Segretain, Capponi & Sureau) Samson, Yilmaz, Frisvad & Seifert (= *Penicillium marneffei* Segretain, Capponi & Sureau), a thermally dimorphic fungus which commonly infects immunocompromised patients in southeast Asia, see Proksa (2010; secondary metabolites), Samson et al. (2011; phylogeny, new combinations, epitypification of the type:), Houbraken and Samson (2011; phylogeny), Guarro et al. (2012; soil borne species), Yilmaz et al. (2012, 2014, 2016a, 2016b; phylogeny, revision, new species), Frisvad et al. (2013; new species), Sang et al. (2013; new species), Visagie et al. (2015; new species), Chen et al. (2016a; new species), Wang et al. (2016a; new species), ex-epitype strain of the type: = CBS 310.38.

Talekpea Lunghini & Rambelli 1979, *Ascomycota* genera *incertae sedis*, one species, type: *T. foeticia* Lunghini & Rambelli, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Ivory Coast, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Talpapellis Alstrup & M.S. Cole 1998, *Ascomycota* genera *incertae sedis*, two species, type: *T. peltigerae* Alstrup & M.S. Cole, hyphomycetous, sexual morph unknown, lichenicolous, Canada, see Kirk et al. (2008;

genus accepted), Heuchert et al. (2014; taxonomic revision), Zhurbenko et al. (2015c; new species), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, holotype of type: M.S. Cole 1632 (C).

Tamaricicola Thambug., E. Camporesi & K.D. Hyde 2016, *Pleosporaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *T. muriformis* Thambug., Camporesi & K.D. Hyde, asexual morph coelomycetous, saprobes, terrestrial, Italy, see Thambugala et al. (2017a; taxonomy, phylogeny), holotype and ex-type of the type: MFLU 16–0676, MFLUCC 15–0488.

Tamhinispora Rajeshkumar & Rahul Sharma 2013, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, one species, type: *T. indica* Rajeshkumar & Rahul Sharma, hyphomycetous, sexual morph unknown, saprobes, see Rajeshkumar and Sharma (2013; morphology), Boonmee et al. (2014b; placed in *Tubeufiales*, phylogeny, key), holotype and ex-type of the type: AMH 9555, NFCCI 2924.

Tamsiniella S.W. Wong, K.D. Hyde, W.H. Ho & S.J. Stanley 1998, *Sordariomycetes* genera *incertae sedis*, two species, type: *T. labiosa* S.W. Wong, K.D. Hyde, W.H. Ho & S.J. Stanley, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: HKU (M) 2276, cultures and sequences are unavailable.

Tandonea M.D. Mehrotra 1991, *Ascomycota* genera *incertae sedis*, one species, type: *T. dargentiana* M.D. Mehrotra, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 269926, cultures and sequences are unavailable.

Tangerinosporium L. Lombard & Crous 2016, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *T. thalitricola* L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, UK, see Lombard et al. (2016; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: CBS H-22472, CBS 317.61.

Tania Egea, Torrente & Sipman 1995, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, two species, type: *T. lanosa* Egea, Torrente & Sipman, lichenized, terrestrial, Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification), sequences unavailable.

Tapellaria Müll. Arg. 1898, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, 22 species, type: *T. herpetospora* Müll. Arg., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2011; new species), Messuti et al. (2011; new species), Kirk et al. (2013; genus accepted), Farkas (2014; taxonomy), van den Broeck et al. (2014; taxonomy), Lücking et al. (2017a; classification), McCarthy and Elix (2016; new species), sequences are unavailable.

Tapellariopsis Lücking 1999, *Pilocarpaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *T. octomera* Lücking, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable, The name as published in 1999 was deemed invalid in *Index Fungorum* because of supposed lack of a Latin diagnosis; however, all required elements are present in the protologue and the name is valid.

Taphridium Lagerh. & Juel 1902, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, two species, type: *T. umbelliferarum* (Rostr.) Lagerh. & Juel, asexual morph unknown, ?saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Taphrina Fr. 1815, *Taphrinaceae*, *Taphrinales*, *Taphrinomycetes*, ca. 100 species, type: *T. aurea* (Pers.) Fr., asexual morph unknown, biotrophic, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Selbmann et al. (2014; new species, taxonomy), cultures and sequences are available for some species.

Four new combinations into *Taphrina* for names in *Lalaria* were invalidly published by Selbmann et al. (2014), since the pagination of the whole publication on which the basionyms appeared, rather than the individual pages, were cited [ICN (Melbourne) Art. 41.5 Note 1].

The four new combinations are here validated as follows:

Taphrina arrabidae (Á. Fonseca, J. Inácio & M.G. Rodrigues) S. Onofri & L. Zucconi, **comb**. **nov**. Index Fungorum 553576. Basionym: *Lalaria arrabidae* Á. Fonseca, J. Inácio & M.G. Rodrigues (FEMS Yeast Research 4:551, 2004).

Taphrina inositophila (Á. Fonseca, J. Inácio & M.G. Rodrigues) A. Yurkov & P. Buzzini, **comb**. **nov**. Index Fungorum 553577. Basionym: *Lalaria inositophila* Á. Fonseca, J. Inácio & M.G. Rodrigues (FEMS Yeast Research 4:552, 2004).

Taphrina kurtzmanii (Á. Fonseca, J. Inácio & M.G. Rodrigues) B. Turchetti & C. Cecchini, **comb**. **nov**. Index Fungorum 553578. Basionym: *Lalaria kurtzmanii* Á. Fonseca, J. Inácio & M.G. Rodrigues (FEMS Yeast Research 4:553, 2004).

Taphrina veronaerambellii (Á. Fonseca, J. Inácio & M.G. Rodrigues) L. Selbmann & C. Cecchini, **comb. nov**. Index Fungorum 553579. Basionym: *Lalaria*

veronaerambellii Á. Fonseca, J. Inácio & M.G. Rodrigues (FEMS Yeast Research 4:553, 2004).

Taphrophila Scheuer 1988, *Dothideomycetes* genera *incertae sedis*, four species, type: *T. cornu-capreoli* Scheuer, asexual morph unknown, on rotten leaves, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tarasginia S.Y. Kondr., Kärnefelt, A. Thell, Elix & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *T. whinrayi* (S.Y. Kondr. & Kärnefelt) S.Y. Kondr., Kärnefelt, A. Thell, Elix, J. Kim, A.S. Kondr. & Hur, lichenized, see Kondratyuk et al. (2015c; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Tarbertia Dennis 1974, *Arthoniales* genera *incertae sedis*, one species, type: *T. juncina* Dennis, ?lichenized or saprobes, terrestrial, British Isles, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Tarsodisporus Bat. & A.A. Silva 1965, *Ascomycota* genera *incertae sedis*, one species, type: *T. paraensis* Bat. & A.A. Silva, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tarzetta (Cooke) Lambotte 1887, *Pezizales* genera *incertae sedis*, *Pezizomycetes*, nine species, type: *P. tarzetta* Cooke, asexual morph unknown, hypogeous, terrestrial, worldwide, see Hansen et al. (2013; phylogeny), Olariaga et al. (2015; taxonomy), culture and sequences are available but lacking for the type.

Tasmidella Kantvilas, Hafellner & Elix 1999, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *T. variabilis* Kantvilas, Hafellner & Elix, lichenized, see Ekman et al. (2008; taxonomy), Lendemer (2010b; taxonomy), Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; phylogeny), Lumbsch et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences unavailable.

Tassiloa S.Y. Kondr., Kärnefelt, A. Thell, Elix & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *T. digitaurea* (Søgaard, Søchting & Sancho) S.Y. Kondr., Kärnefelt, A. Thell, Elix, J. Kim, A.S. Kondr. & Hur, lichenized, see Kondratyuk et al. 2015e, Lücking et al. (2017a; classification), sequences are available.

Tatraea Svrček 1993, ?*Helotiaceae*, *Helotiales*, *Leotiomycetes*, two species, type: *T. dumbirensis* (Velen.) Svrček, asexual morph unknown, saprobe of wood, widespread (temperate), see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype of the type: PRM 148876 (Svrček 1993), cultures and sequences are unavailable.

Tavaresiella T. Majewski 1980, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *T. hebri* T. Majewski, asexual morph unknown, biotrophic, hosts are Hebridae (Hemiptera: Heteroptera), Africa, Asia, and Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tayloriellina S.Y. Kondr., Kärnefelt., A. Thell, Elix & Hur 2016, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *T. erythrosticta* (Taylor) S.Y. Kondr., Kärnefelt., A. Thell, Elix, J. Kim, A.S. Kondr. & Hur, lichenized, see Kondratyuk et al. (2016a; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Tectacervulus A.W. Ramaley 1992, *Ascomycota* genera *incertae sedis*, one species, type: *T. mahoniae* A.W. Ramaley, coelomycetous, sexual morph unknown, pathogens, on leaf spots, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: BPI 1107358, cultures and sequences are unavailable.

Teichospora Fuckel 1870, *Teichosporaceae*, *Pleosporales*, *Dothideomycetes*, 35 species, type: *T. trabicola* Fuckel, asexual morph coelomycetous, terrestrial, saprobes, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Teichosporaceae*), Wijayawardene et al. (2014c; outline), Crous et al. (2016a; new species, phylogeny), Jaklitsch et al. (2016c; new species, phylogeny), Liu et al. (2017, placement), cultures available for type: C160, C134, C141.

Teichosporella (Sacc.) P. Karst. 1895, *Dothideomycetes* genera *incertae sedis*, 26 species, type: *T. dura* Sacc., asexual morph unknown, saprobes, terrestrial, America, Germania, Germany, Italy, temperate, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Telimena Racib. 1900, *Telimenaceae*, *Phyllachorales*, *Sordariomycetes*, c. 16 species, type: *T. erythrinae* Racib., from living leaves, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a genus in *Phyllachoraceae*), Mardones et al. (2017; phylogeny), cultures and sequences are unavailable.

Telimenella Petr. 1940, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, two species, type: *T. persica* Petr., from living leaves, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al.

(2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Telimenochora Sivan. 1987, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *T. abortiva* (F. Stevens) Sivan., from living leaves, Mexico, Puerto Rico, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Telioclipeum Viégas 1962, *Ascomycota* genera *incertae sedis*, one species, type: *T. lavrense* Viégas, saprobes, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Telogalla Nik. Hoffm. & Hafellner 2000, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *T. olivieri* (Vouaux) Nik. Hoffm. & Hafellner, asexual morph unknown, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Teloschistes Norman 1853, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 20 species, type: *T. flavicans* (Sw.) Norman, asexual morph unknown, lichenized, terrestrial, worldwide, see Muggia et al. (2008; taxonomy, phylogeny), Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012, 2015; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: AFTOL-ID 315.

Teloschistopsis Frödén, Søchting & Arup 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *T. chrysocarpoides* (Vainio) Frödén, Arup & Søchting, asexual morph unknown, lichenized, terrestrial, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Temerariomyces B. Sutton 1993, *Ascomycota* genera *incertae sedis*, one species, type: *T. acutulus* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Malawi, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 347181, cultures and sequences are unavailable.

Temperantia K. Hansen, Healy & Kovács 2011, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, nine species, type: *T. tiffanyae* (Healy) K. Hansen, Healy & Kovács, asexual morph unknown, hypogeous, terrestrial, USA, see Kovács et al. (2011b; taxonomy, phylogeny), holotype of the type: ISC, Healy 231, sequence are available.

Tengiomyces 1999, *Helminthosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, four species, type: *T. indicus* (Varghese & V.G. Rao) , asexual morph unknown, saprobes, terrestrial, India, China, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tenuiappendicula Senan., Camporesi & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *T. alnicola* Senan., Camporesi & K.D. Hyde, asexual morphs coelomycetous, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), holotype of the type: MFLU 16–1265A, cultures and sequences are available.

Tenuimurus Senan., Camporesi & K.D. Hyde 2016, *Phomatosporaceae*, *Phomatosporales*, *Sordariomycetes*, one species, type: *T. clematis* Senan., Camporesi & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, temperate, Italy, see Senanayake et al. (2016; taxonomy, phylogeny), cultures and sequences are available.

Tephromela M. Choisy 1929, *Tephromelataceae*, *Lecanorales*, *Lecanoromycetes*, 30 species, type: *T. atra* (Huds.) Hafellner, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Muggia et al. (2010b, 2014; morphology, phylogeny, taxonomy), Pérez-Vargas et al. (2010a; new species), Fryday (2011; new species), Spribille et al. (2011; molecular), Elix (2012; new species), Kirk et al. (2013; genus accepted), Wang et al. (2013b; taxonomy), Muggia et al. (2014; taxonomy), Kantvilas (2015; taxonomy), Szczepańska (2015; new records), Cestaro et al. (2016; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Teracosphaeria & Seifert 2007, *Sordariomycetes* genera *incertae sedis*, two species, type: *T. petroica* & Seifert, asexual morph unknown, saprobes, terrestrial, New Zealand, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Annulatascaceae* and *Sordariomycetidae*, genera *incertae sedis*), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: PDD 81436, cultures and sequences are available.

Teratomyces Thaxt. 1893, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, nine species, type: *T. mirificus* Thaxt., asexual morph unknown, biotrophic, hosts are Staphylininae (Coleoptera: Staphylinidae), widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossi (2010; most recent species description), Haelewaters et al. (2015c; synonymy of *T. brevicaulis* with *T. actobii*), cultures and sequences are unavailable.

Teratoschaeta Bat. & O.M. Fonseca 1967, *Dothideomycetes* genera *incertae sedis*, two species, type: *T. rondoniensis* Bat. & O.M. Fonseca, asexual morph unknown, lichenicolous, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Teratosperma Syd. & P. Syd. 1909, *Ascomycota* genera *incertae sedis*, one species, type: *T. singulare* Syd. & P. Syd., saprobes, Africa, North America, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Teratosphaeria Syd. & P. Syd. 1912 (= *Colletogloeopsis* Crous & M.J. Wingf. 1997; = *Kirramyces* J. Walker et al. 1992 *fide* Crous et al. 2009f; Wijayawardene et al. 2014c; Rossman et al. 2015b), *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, c. 90 species, type: *T. fibrillosa* Syd. & P. Syd., asexual morph coelomycetous (formerly known in *Colletogloeopsis*, *Kirramyces*), saprobes, pathogens, terrestrial, cosmopolitan, see Crous et al. (2009c, d, e, f, 2011e; taxonomy, phylogeny), Andjic et al. (2010, 2016; new species, Australia, cryptic species), Lumbsch and Huhndorf (2010; outline), Yamazaki et al. (2010; acidophilic), Hunter et al. (2011; diseases), Taole et al. (2012; *T. suttonii* complex), Taylor et al. (2012; pathogens), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, nomenclature), Quaedvlieg et al. (2014; phylogeny), cultures and sequences are available.

Teratosphaericola Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *T. pseudoafricana* (Crous & T.A. Cout.) Quaedvl. & Crous, asexual morph unknown, pathogens, Zambia, see Quaedvlieg et al. (2014; morphology, phylogeny), holotype and ex-type culture of the type: PREM 54973, CPC 1229.

Teratosphaeriopsis Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *T. pseudoafricana* Quaedvl. & Crous asexual morph unknown, one species, pathogens, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), holotype and ex-type culture of the type: CBS H-21137, CBS 111171.

Terfezia (Tul. & C. Tul.) Tul. & C. Tul. 1851, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, 21 species, type: *T. arenaria* (Moris) Trappe, asexual morph unknown, hypogeous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kovács et al. (2011a; new species), Bordallo et al. (2012, 2013, 2015; new species), Kirk et al. (2013; genus accepted), sequences are available.

Termitaria Thaxt. 1920, *Ascomycota* genera *incertae sedis*, three species, type: *T. snyderi* Thaxt., hyphomycetous, sexual morph unknown, America, Sardinia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Termitariopsis M. Blackw., Samson & Kimbr. 1980, *Ascomycota* genera *incertae sedis*, three species, type: *T. cavernosa* M. Blackw., Samson & Kimbr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North and Central America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Terriera B. Erikss. 1970, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, 26 species, type: *T. cladophila* (Lév.) B. Erikss., asexual morph unknown, saprobes, terrestrial, China, Europe, Thailand, see Lumbsch and Huhndorf (2010; outline), Lantz et al. (2011; DNA, phylogeny), Chen et al. (2012; new species, China), Kirk et al. (2013; genus accepted), Zhou et al. (2013; new species, China), Wu et al. (2015; new species), Hyde et al. (2016; new species, Thailand), sequences are available.

Testudina Bizz. 1885, *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *T. terrestris* Bizz., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Testudinaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Testudomyces Cano, M. Solé & Guarro 2002, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *T. verrucosus* M. Solé, Cano & Guarro, asexual morph unknown, saprobes, terrestrial, Spain, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences is available for the type (unpublished).

Tetrabrachium Nawawi & Kuthub. 1987, *Ascomycota* genera *incertae sedis*, three species, type: *T. elegans* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetrabrunneospora Dyko 1978, *Ascomycota* genera *incertae sedis*, two species, type: *T. ellisii* Dyko, hyphomycetous, sexual morph unknown, saprobes, aquatic, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetrachaetum Ingold 1942, *Leotiomycetes* genera *incertae sedis*, three species, type: *T. elegans* Ingold, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available (unpublished).

Tetracladium De Wild. 1893, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, eight species, type:

T. marchalianum De Wild., hyphomycetous, sexual morph unknown, saprobes, aquatic, terrestrial, worldwide, see Sati et al. (2009; new species), Letourneau et al. (2010; DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CCM F-11001.

Tetracoccosporium Szabó 1905, *Ascomycota* genera *incertae sedis*, three species, type: *T. paxianum* Szabó, hyphomycetous, sexual morph unknown, on dung and soil, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetracrium Henn., 1902, *Dothideomycetes* genera *incertae sedis*, nine species, type: *T. aurantii* Henn., hyphomycetous, sexual morph unknown, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetramelas Norman 1853, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, 16 species, type: need typification, lichenized, see Gaya et al. (2012; phylogeny), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; taxonomy), sequences are available.

Tetrameronycha Speg. ex W. Rossi & M. Blackw. 1990, *Ascomycota* genera *incertae sedis*, one species, type: *T. bonaerensis* (Speg.) W. Rossi & M. Blackw., hyphomycetous, sexual morph unknown, on insects, terrestrial, Africa, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetranacriella Kohlm. & Volkm.-Kohlm. 2001, *Ascomycota* genera *incertae sedis*, one species, type: *T. papillata* Kohlm. & Volkm.-Kohlm., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetranacrium H.J. Huds. & B. Sutton 1964, *Ascomycota* genera *incertae sedis*, one species, type: *T. gramineum* H.J. Huds. & B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, West Indies, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetrandromyces Thaxt. 1912, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, six species, type: *T. brachidae* Thaxt., no asexual state, biotrophic, hosts are Anthicidae and Staphylinidae (Coleoptera), widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tetrapisispora Ueda-Nishimura & Mikata emend. Kurtzman 2003, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, seven species, type: *T. phaffii* (van der Walt) Ueda-Nishimura & Mikata, asexual reproduction is by multilateral budding, saprophytic, in soil, Japanese blueberry, mangrove trees, cockroach, food processing plant, worldwide, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Tetraploa Berk. & Broome 1850 (= *Tetraplosphaeria* Kaz. Tanaka & K. Hiray *fide* Wijayawardene et al. 2014c; Rossman et al. 2015b), *Tetraplosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, 16 species, type: *T. aristata* Berk. & Broome, asexual morph coelomycetous, saprobes, terrestrial or aquatic, worldwide, see Tanaka et al. (2009; phylogeny, morphology), Wijayawardene et al. (2014c; nomenclature), Rossman et al. (2015b; nomenclature), holotype of the type: IMI 17841, cultures and sequences are available.

Tetraposporium S. Hughes 1951, *Ascomycota* genera *incertae sedis*, two species, type: *T. asterinearum* S. Hughes, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tettigomyces Thaxt. 1915, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, 16 species, type: *T. gryllotalpae* Thaxt., asexual morph unknown, biotrophic, hosts are *Gryllotalpa* species and *Scapteriscus* sp. (*Orthoptera*: *Gryllotalpidae*), widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Teunomyces Kurtzman & M. Blackwell 2016, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, twelve species, type: *T. kruisii* (Kocková-Kratochvílová & Ondrušová) Kurtzman & M. Blackwell, asexual reproduction is by multilateral budding, saprophytic, in insects, often the guts of insects, worldwide, see Kurtzman et al. (2016; taxonomy), cultures and sequences are available.

Teuvoa Sohrabi & S. Leavitt 2013, *Megasporaceae*, *Pertusariales*, *Lecanoromycetes*, three species, type: *T. uxoris* (Werner) Sohrabi, V. J. Rico & S. Leavitt, lichenized, see Sohrabi et al. (2013b; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Texosporium Nádv. ex Tibell & Hofsten 1968, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, two species, type: *T. sancti-jacobi* (Tuck.) Nádv. ex Tibell & Hofsten, asexual morph unknown, lichenized, terrestrial, see

Lumbsch and Huhndorf (2010; outline), Kirby et al. (2011; ecology), Kirk et al. (2013; genus accepted), Root et al. (2011, 2012, 2013; ecology), Rosentreter et al. (2014; ecology), Lücking et al. (2017a; classification), Prieto and Wedin (2016; ecology), sequences are available.

Textotheca Matsush. 1996, *Ascomycota* genera *incertae sedis*, one species, type: *T. caffra* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thailandiomyces Pinruan, Sakay., K.D. Hyde & E.B.G. Jones 2008, *Tirisporellaceae*, *Tirisporellales*, *Sordariomycetes*, one species, type: *T. bisetulosus* Pinruan, Sakay., Hyde & E.B.G. Jones, saprobes, aquatic, see Lumbsch and Huhndorf (2010; outline), Jones et al (2015; classification, phylogeny, marine), Maharachchikumbura et al. (2015b, 2016b; classification, phylogeny), Suetrong et al. (2015; phylogeny), holotype and cultures available for the type: BBH, Pinruan, Wah 110, BCC18.

Thalassoascus Ollivier 1926, *Dothideomycetes* genera *incertae sedis*, three species, type: *T. tregoubovii* Ollivier, asexual morph unknown, parasites, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Jones et al (2015; classification, marine), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Thalassogena Kohlm. & Volkm.-Kohlm. 1987, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. sphaerica* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, worldwide, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of type: J.K. 5044a = 01390521, NYBG.

Thalespora Chatmala & E.B.G. Jones 2006, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. appendiculata* Chatmala & E.B.G. Jones, asexual morph unknown, marine, on wood, tropical, see Sakayaroj et al. (2011a; phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Thallinocarpon E. Dahl 1950, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, two species, type: *T. pulvinatum* E. Dahl, lichenized, see Lücking et al. (2017b; classification), sequences are unavailable.

Thalloloma Trevis. 1853, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 19 species, type: *T. anguinum* (Mont.) Trevis., asexual morph unknown, lichenized, terrestrial, tropical, placement in *Graphidaceae* supported by molecular data, see Rivas Plata et al. (2012a; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Thallomyces H.J. Swart 1975, *Parmulariaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *T. oritis* (Hansf.) H.J. Swart, asexual morph unknown, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Thamnochrolechia Aptroot & Sipman 1991, *Pertusariaceae*, *Pertusariales*, *Lecanoromycetes*, one species, type: *T. verticillata* Aptroot & Sipman, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available, holotype of the type: B, Aptroot 18622.

Thamnogalla D. Hawksw. 1980, *Cordieritidaceae*, *Leotiomycetes* families *incertae sedis*, one species, type: *T. crombiei* (Mudd) D. Hawksw., lichenicolous, Europe and North America, terrestrial, see Kirk et al. (2013; genus accepted), Suija et al. (2015b; phylogeny), Jaklitsch et al. (2016a; classification), cultures and sequences are available, lectotype of type: BM.

Thamnolecania (Vain.) Gyeln., 1933, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, eight species, type: *L. brialmontii* Vain., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Thamnolia Ach. ex Schaer. 1850, *Icmadophilaceae*, *Pertusariales*, *Lecanoromycetes* four species, type: *T. vermicularis* (Sw.) Schaer., asexual morph unknown, lichenized, terrestrial, see Nelsen. and Gargas (2009; molecular), Diederich et al. (2010b; taxonomy), Manojlović et al. (2010a, b; HPLC analysis, bioactivity), Schmull et al. (2011; molecular), Lumbsch and Huhndorf (2010; outline), Hansen (2013; taxonomy), Kirk et al. (2013; genus accepted), Knight et al. (2013; chemotaxonomy), Árnason (2014; chemistry), Lücking et al. (2017a; classification), sequences are available.

Thamnomyces Ehrenb. 1820, *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, five species, type: *T. chamissonis* Ehrenb., asexual morph hyphomycetous, terrestrial, saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Stadler et al. (2010b; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available for unidentified species.

Thaptospora B. Sutton & Pascoe 1987, *Ascomycota* genera *incertae sedis*, one species, type: *T. atrobrunnea* B.

Sutton & Pascoe, coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thaumasiomyces Thaxt. 1931, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, three species, type: *T. scabellularius* Thaxt., no asexual state, biotrophic, hosts are Hydrophilidae (Coleoptera), Africa and Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thaxteria Sacc. 1891, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, nine species, type: *T. kunkelii* Giard, asexual morph unknown, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Thaxteriella Petr., 1924, *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, nine species, type: *T. corticola* Petr., saprobes on decaying wood, Puerto Rico, Thailand, asexual morph hyphomycetous, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; taxonomy), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Thaxteriellopsis Sivan., Panwar & S.J. Kaur 1976 [1977], *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, three species, type: *T. lignicola* Sivan., Panwar & S.J. Kaur, saprobes on decaying wood, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; taxonomy), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Thecaria Fée 1824, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *T. quassiicola* Fée, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2012a; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Thecographa A. Massal. 1860, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *T. ceramia* A. Massal., asexual morph unknown, lichenized fungi, terrestrial, tropical, see Rivas Plata et al. (2012a; taxonomy), Lücking et al. (2017a; classification), sequences are unavailable.

Thecotheus Boud. 1869, *Ascobolaceae*, *Pezizales*, *Pezizomycetes*, 20 species, type: *T. pelletieri* (P. Crouan & H. Crouan) Boud., asexual morph unknown, coprophilous, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kušan et al. (2015a; new species), cultures and sequences are available but lacking for the type.

Thedgonia B. Sutton 1973, *Helotiales* genera *incertae sedis*, one species, type: *T. ligustrina* (Boerema) B. Sutton, hyphomycetous, sexual morph unknown, terrestrial, plant pathogens, leaf-spotting, Asia, Europe, North America, see Crous et al. (2009a, 2012a, phylogeny), Seifert et al. (2011), Wijayawardene et al. (2017; outline), ex-type culture: CBS 148.59, holotype of type: the Netherlands, Eefelde, on *Ligustrum ovalifolium*, 23 Mar. 1959, G.H. Boerema (L).

Theissenia Maubl. 1914, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, four species, type: *T. pyrenocrata* (Theiss.) Maubl, asexual morph hyphomycetous, terrestrial, saprobes, pantropical, see Hsieh et al. (2010; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are available.

Thelebolus Tode 1790 (= *Lasiothelebolus* Kimbr. & Luck-Allen 1974; = *Pezizella* P. Karst., 1873; = *Pezizula* P. Karst. 1871; = *Ryparobius* Boud. 1869; = *Telebolus* Lindau 1905 fide Species Fungorum 2017), *Thelebolaceae*, *Thelebolales*, *Leotiomycetes*, c. 13 species, type: *T. stercoreus* Tode, asexual morph unknown, saprobes, from soil, on dung, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Mukhopadhyay et al. (2014; extracellular enzymes), Singh et al. (2014; extracellular enzymes), Crous et al. (2015d; new species), cultures available for the type: CBS 709.69, CBS 717.69 (unpublished).

Thelenella Nyl. 1855, *Thelenellaceae*, *Ostropales*, *Lecanoromycetes*, 30 species, type: *T. modesta* (Nyl.) Nyl., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kınalıoglu and Aptroot (2011; new records of Turkey), Kirk et al. (2013; genus accepted), Aptroot et al. (2014a; new species), Cáceres and Aptroot (2016; new species), Nelsen et al. 2016, Lücking et al. (2017a; classification), sequences are available.

Thelenidia Nyl. 1886, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. monosporella* Nyl., asexual morph unknown, lichenized, terrestrial, Greenland, Switzerland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline, accepted as *Dothideomycetes*), Lücking et al. (2017a; classification), sequences are unavailable.

Thelidiella Fink 1933, *Sordariomycetes* genera *incertae sedis*, two species, type: *T. blastenicola* Fink ex J. Hedrick, asexual morph unknown, lichenicolous, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Thelidiopsis Vain. 1921, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, one species, type: *T. robinsonii* Vain., asexual morph unknown, lichenized, terrestrial, Europe, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Thelidium A. Massal. 1855, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, c. 100 species, type: *T. amylaceum* A. Massal., asexual morph unknown, lichenized, terrestrial, fresh water, Europe, Asia, see Holger et al. (2008; fresh water species), Lumbsch and Huhndorf (2010; outline), Pykälä et al. (2012; species in Russia), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Thelignya A. Massal. 1856, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, three species, type: *T. fuliginea* (Ach.) A. Massal., asexual morph unknown, lichenized, terrestrial, see Jørgensen and Palice (2010; taxonomy), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kristinsson et al. (2014; taxonomy), Lücking et al. (2017a; classification), sequences unavailable.

Thelliana S.Y. Kondr., Kärnefelt, Elix & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species; type: *T. pseudokiamae* S.Y. Kondr., Kärnefelt, Elix & Hur; lichenized; see Kondratyuk et al. (2015c; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Thelocarpella Nav.-Ros. & Cl. Roux, 1999, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, one species, type: *T. gordensis* Nav.-Ros. & Cl. Roux, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Tonouchi (2010; characterization), Knudsen et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Gueidan et al. (2014c; taxonomy), Westberg et al. (2015; phylogeny), Roux et al. (2016; taxonomy), Lücking et al. (2017a; classification); sequences are available.

Thelocarpon Nyl. 1853, *Thelocarpaceae*, *Thelocarpales*, *Ascomycota* orders *incertae sedis*, 27 species, type: *T. laureri* (Flot.) Nyl., asexual morph unknown, lichenized or non-lichenized, terrestrial, worldwide, see Moon and Aptroot (2009; new species, South Korea), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Flakus and Kukwa (2014; new species), Cáceres and Aptroot (2016; new species, Brazil), van den Boom (2016; new species), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification), sequences are available.

Thelomma A. Massal. 1860, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, seven species; type: *T. mammosum* (Hepp) A. Massal., lichenized, see Lumbsch and Huhndorf (2010; outline), Gaya et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Thelonectria P. Chaverri & C. Salgado 2011, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, 43 species, type: *T. discophora* (Mont.) P. Chaverri & C. Salgado, asexual morph cylindrocarpon-like, saprobes, terrestrial, worldwide, see Chaverri et al. (2011; taxonomy, phylogeny), Salgado-Salazar et al. (2012, 2014, 2016; new species, phylogeny), Zeng and Zhuang (2013b; new species, China), Maharachchikumbura et al. (2015b, 2016b; outline), Lombard et al. (2016; phylogeny), cultures available for the type: CBS 125153.

Thelopsis Nyl. 1855, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, nine species, type: *T. rubella* Nyl., asexual morph unknown, lichenized, terrestrial, see Giordani et al. (2009; new records), Øvstedal and Gremmen (2009; new record), Aptroot et al. (2010; biodiversity), Potenza et al. (2010; new records), Lumbsch and Huhndorf (2010; outline), Dymytrova et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Aptroot et al. (2014c; world key), Mies (2015; new records), Stehn et al. (2015; list), Lücking et al. (2017a; classification), sequences unavailable.

Thelotrema Ach. 1803, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 106 species, type: *T. lepadinum* (Ach.) Ach., asexual morph unknown, lichenized, terrestrial, mostly tropical, see Mangold et al. (2009; key, Australia), Lumbsch and Huhndorf (2010; outline), Rivas Plata et al. (2010a, 2012a; key), Sipman et al. (2012; key, Costa Rica), Weerakoon et al. (2012b; new species), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Themisia Velen. 1939, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, eight species, type: *T. nuda* Velen., asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thermoascus Miehe 1907, *Thermoascaceae*, *Eurotiales*, *Eurotiomycetes*, five species, type: *T. aurantiacus* Miehe, asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as in *Trichocomaceae*), Houbraken and Samson (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Thermothelomyces Y. Marín, Stchigel, Guarro & Cano 2015, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, four species, type: *T. thermophila* (Apinis) Y. Marín, Stchigel, Guarro & Cano, see Marin-Felix et al. (2014; taxonomy), Maharachchikumbura et al. (2016b; outline), cultures and sequences are available.

Thermutis Fr. 1825, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, two species, type: *T. velutina* (Ach.) Flot., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Urbanavichus and Urbanavichene (2011; new records), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Thermutopsis Henssen 1990, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, one species, type: *T. jamesii* Henssen, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); sequences are unavailable.

Therrya Sacc. 1882, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, seven species, type: *T. gallica* Sacc. & Penz., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Solheim et al. (2013; DNA, phylogeny), cultures and sequences are available but lacking for the type.

Thielavia Zopf 1876, *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, 31 species, type: *T. basicola* Zopf, asexual morph unknown, saprobes, saprobes, terrestrial, worldwide, see Kusari et al. (2009; endophytes, secondary metabolites), Lumbsch and Huhndorf (2010; outline), Berka et al. (2011; genomic analysis), Kirk et al. (2013; genus accepted), Van den Brink et al. (2015; DNA, thermophilic properties), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 229.82.

Thielaviopsis Went 1893, *Ceratocystidaceae*, *Microascales*, *Sordariomycetes*, six species, type: *T. ethacetica* Went, asexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see de Beer et al. (2014; new species), Mbenoun et al. (2014, 2016; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), de Melo et al. (2016; pathogens), Rossman et al. (2016b; new combination), cultures available for the type: CMW37775.

Thindia Korf & Waraitch 1971, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *T. cupressi* Korf & Waraitch, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thindiomyces Arendh. & R. Sharma 1983, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *T. epiphyllus* Aredh. & Sharma, asexual morph unknown, saprobes of leaves, Bhutan, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), holotype: PAN 17589, cultures and sequences are unavailable.

Thirumalacharia Rathaiah 1981, *Ascomycota* genera *incertae sedis*, one species, type: *T. curcumae* Rathaiah, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tholomyces Matsush. 2003, *Ascomycota* genera *incertae sedis*, one species, type: *T, flagellifer* Matsush., coelomycetous, sexual morph unknown, saprobes, terrestrial, Honshu, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tholurna Norman 1861, *Caliciaceae*, *Caliciales*, *Lecanoromycetes*, one species, type: *T. dissimilis* Norman, asexual morph unknown, lichenized, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Gaya et al. 2012; molecular), Allen and Lendemer (2013; molecular), Kirk et al. (2013; genus accepted), Prieto et al. (2013; phylogeny), Beese et al. (2015; ecology), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Thoracella Oudem. 1901, *Ascomycota* genera *incertae sedis*, one species, type: *T. ledi* Oudem., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thozetella Kuntze 1891, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, 17 species, type: *T. nivea* (Berk.) Kuntze, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Whitton et al. (2012a; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Perera et al. (2016b; new species), cultures and sequences are available for unidentified species.

Thrauste Theiss. 1916, *Englerulaceae*, *Dothideomycetes* families *incertae sedis*, three species, type: *T. medinillae* (Racib.) Theiss., sexual morph hyphomycetous, epiphytes, saprobes, terrestrial, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Dai et al. (2014c; morphology), cultures and sequences are unavailable.

Thrinacospora Petr. 1948, *Ascomycota* genera *incertae sedis*, one species, type: *T. insignis* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Ecuador, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thripomyces Speg. 1915, *Ceratomycetaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, two species, type:

T. italicus Speg., asexual morph unknown, biotrophic, hosts are *Hydraena* species (Coleoptera: Hydraenidae), Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thrombium Wallr. 1831, *Thrombiaceae*, *Ostropales*, *Lecanoromycetes*, five species, type: *T. epigaeum* (Pers.) Wallr., Russia, America, see Nadyeina (2009; taxonomy), Kukwa (2010; list), Lumbsch and Huhndorf (2010; outline), Stepanchikova et al. (2011; new records), Kirk et al. (2013; genus accepted), Resl et al. (2015), Lücking et al. (2017a; classification), sequences are available.

Thryptospora Petr. 1947, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. singularis* Petr., asexual morph unknown, saprobes, terrestrial, Syria, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Thuemenella Penz. & Sacc. 1898 (= *Chromocreopsis* Seaver 1910 fide Wendt et al. 2017), *Hypoxylaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *T. javanica* Penz. & Sacc., asexual morph hyphomycetous, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Hypoxylaceae*), cultures and sequences are available.

Thyrea A. Massal. 1856, *Lichinaceae*, *Lichinales*, *Lichinomycetes*, 13 species, type: *T. plectospora* A. Massal., asexual morph unknown, lichenized, terrestrial, South Korea, Iran, Turkey, USA, see Björk (2010; new records), Lumbsch and Huhndorf (2010; outline), Schultz and Moon (2011; taxonomy), Kirk et al. (2013; genus accepted), Candan and Schultz (2015; new records), Ahti et al. (2016; checklist), Lücking et al. (2017a; classification); sequences are available.

Thyridaria Sacc. 1875, *Thyridariaceae*, *Pleosporales*, *Dothideomycetes*, 52 species, type: *T. incrustans* Sacc., asexual morph unknown, saprobes, terrestrial, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology; phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Thyridella (Sacc.) Sacc. 1895, *Sordariomycetes* genera *incertae sedis*, three species, type: *T. colliculus* Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Thyridium Nitschke 1867, *Thyridiaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, c. 20 species, type: *T. vestitum* (Fr.) Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), sequence are available.

Thyrinula Petr. & Syd. 1924, *Ascomycota* genera *incertae sedis*, one species, type: *T. eucalypti* (Cooke & Massee) H.J. Swart, coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, Australia, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Thyriodictyella Cif. 1962, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. microsperma* (Syd. & P. Syd.) Cif., asexual morph unknown, saprobes, terrestrial, Dominican Republic, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Micropeltidaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Thyriopsis Theiss. & Syd. 1915 (= *Dothiclypeolum* Höhn. 1916 *fide* Species Fungorum 2017), *Aulographaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *T. halepensis* (Cooke) Theiss. & Syd., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hyde et al. (2013; accepted as a genus in *Aulographaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; taxonomy, accepted as a genus in *Aulographaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Thyriostromella Bat. & C.A.A. Costa 1959, *Ascomycota* genera *incertae sedis*, one species, type: *T. calophylli* (Sacc.) Bat. & C.A.A. Costa, coelomycetous, sexual morph unknown, saprobes, terrestrial, Malaysia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thyronectria Sacc. 1875 (= *Pleonectria* Sacc. 1876; = *Chilonectria* Sacc. 1878; = *Nectria* subg. *Aponectria* Sacc. 1878; ≡ *Aponectria* (Sacc.) Sacc. 1883; = *Mattirolia* Berl. & Bres. 1889; = *Scoleconectria* Seaver 1909; = *Thyronectroidea* Seaver 1909 *fide* Jaklitsch and Voglmayr 2014), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 40 species, type: *T. patavina* Sacc., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch and Voglmayr (2014; revisited, phylogeny), Lombard et al. (2015a; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Thyrostroma Höhn. 1911 (= *Thyrococcum* (Sacc.) Sacc. 1913; = *Thyrococcum* Höhn. 1907; = *Thyrostromella* Syd.

1924; = *Wilsonomyces* Adask., J.M. Ogawa & E.E. Butler 1990 *fide* Species Fungorum 2017), *Dothidotthiaceae*, *Pleosporales*, *Dothideomycetes*, c. 45 species, type: *T. compactum* (Sacc.) Höhn., hyphomycetous, sexual morph unknown, saprobes, pathogens, terrestrial, worldwide, see Phillips et al. (2008; accepted as genus in *Dothidotthiaceae*), Seifert et al. (2011; morphology), Hyde et al. (2013; accepted as genus in *Dothidotthiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Crous et al. (2016b; phylogeny), cultures available but lacking for the type.

Thyrostromella Höhn. 1919, *Ascomycota* genera *incertae sedis*, three species, type: *T. myriana* (Desm.) Höhn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australia, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thyrotheca Kirschst. 1944, *Sordariomycetes* genera *incertae sedis*, three species, type: *T. nyssae* (Berk. & M.A. Curtis) Kirschst., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Thyrsidiella Höhn. 1909 (= *Thyrsidiella* Höhn. 1905 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *T. lignicola* (Höhn.) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Thyrsidina Höhn. 1905, *Ascomycota* genera *incertae sedis*, one species, type: *T. carneominiata* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Thysanorea Arzanlou, W. Gams & Crous 2007, *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *T. papuana* (Aptroot) Arzanlou, W. Gams & Crous, hyphomycetous, sexual morph unknown, saprobes, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirschner (2016; taxonomy, phylogeny), holotype and cultures available for the type: CBS, Aptroot 36647, CBS 212.96.

Thysanothecium Mont. & Berk. 1846, *Cladoniaceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *T. hookeri* Mont. & Berk., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Tiarospora Sacc. & Marchal 1885, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *T. westendorpii* Sacc. & Marchal, coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Phookamsak et al. (2014c; accepted as a genus in *Phaeosphaeriaceae*), cultures and sequences are unavailable.

Tiarosporella Höhn. 1919 (= *Tiarosporella* Höhn. 1924 *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, c. five species, type: *S. visci* (Alb. & Schwein.) Sacc., coelomycetous, saprobes, endophytes, terrestrial, cosmopolitan, see Phillips et al. (2008, 2013; taxonomy, phylogeny), Liu et al. (2012b; taxonomy, phylogeny), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Slippers et al. (2013; phylogeny), Thambugala et al. (2014d; sexual morph, phylogeny), Crous et al. (2015b; phylogeny), Wijayawardene et al. (2014c, 2017 outline), Dissanayake et al. (2016b; taxonomy), cultures and sequences are available.

Tiarosporellivora Punith. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *T. caricina* Punith., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Germany, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tibellia Vezda & Hafellner 1992, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *T. dimerelloides* Vezda & Hafellner, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Ticogloea G. Weber, Spaaij & W. Gams 1994, *Ascomycota* genera *incertae sedis*, one species, type: *T. guttulata* G. Weber, Spaaij & W. Gams, hyphomycetous, sexual morph unknown, saprobes, ?endophytes, terrestrial, Europe, Central America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Ticomyces Toro 1952 (= *Dontuzia* L.D. Gómez 1973; = *Tonduzia* F. Stevens 1927 *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, one species, type: *T. psychotriae* (F. Stevens) Toro, asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded the genus from *Meliolaceae* and placed in *Sordariomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Ticonectria Döbbeler 1998, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *T. perianthii* Döbbeler, asexual morph unknown, on liverworts, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Ticosynnema R.F. Castañeda, Granados & Mardones 2013, *Ascomycota* genera *incertae sedis*, one species, type: *T. carranzae* R.F. Castañeda, Granados & Mardones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Costa Rica, see Castañeda-Ruiz et al. (2013a; taxonomy), Wijayawardene et al. (2017; outline), holotype of the type: HAL 2454F, cultures and sequences are unavailable.

Tilachlidium Preuss 1851, *Tilachlidiaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *T. pinnatum* Preuss, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; phylogeny, new family), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Tilakidium Vaidya, C.D. Naik & Rathod 1986, *Hypocreales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *T. indicum* Vaidya, C.D. Naik & Rathod, asexual morph unknown, saprobes, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tilakiella Srinivas. 1973, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. indica* Srinivas., asexual morph unknown, saprobes, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Timdalia Hafellner 2001, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, one species, type: *T. intricata* (H. Magn.) Hafellner, lichenized, see Lumbsch and Huhndorf (2010; outline), Westberg et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available.

Tingoldiago K. Hiray. & Kaz. Tanaka 2010, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *T. graminicola* K. Hiray. & Kaz. Tanaka, saprobes, Japan, see Hirayama et al. (2010; taxonomy, phylogeny), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Tinhaudeus K.L. Pang, S.Y. Guo & E.B.G. Jones 2015, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. formosanus* K.L. Pang, S.Y. Guo & E.B.G. Jones, asexual morph unknown, saprobes, marine, Taiwan, see Ariyawansa et al. (2015a; morphology, phylogeny), Maharachchikumbura et al. (2016b; phylogeny, outline), holotype and ex-type strains of type: F28727, BCRC FU30496.

Tirispora E.B.G. Jones & Vrijmoed 1994, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, two species, type: *T. unicaudata* E.B.G. Jones & Vrijmoed, asexual morph unknown, two species, marine, on mangrove wood, tropical, see Lumbsch and Huhndorf (2010; outline), Sakayaroj et al. (2011a; phylogeny), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tirisporella E.B.G. Jones, K.D. Hyde & Alias, 1996, *Tirisporellaceae*, *Tirisporellales*, *Sordariomycetes*, one species, type: *T. beccariana* (Ces.) E.B.G. Jones, K.D. Hyde & Alias asexual morph phialophora-like, on petioles of mangrove palm *Nypa*, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Tirmania Chatin 1892, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *T. nivea* (Desf.) Trappe, asexual morph unknown, hypogeous, terrestrial, worldwide, see Al-Laith (2010; Antioxidant components and antioxidant/antiradical activities), Lumbsch and Huhndorf (2010; outline), Dib-Bellahouel and Fortas (2011; antibacterial activity), Kirk et al. (2013; genus accepted), Osmundson et al. (2013; DNA), sequences are available.

Titaea Sacc. 1876 (= *Aorate* Syd. 1929; = *Maxillispora* Höhn. 1914; = *Monogrammia* F. Stevens 1917 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 23 species, type: *T. callispora* Sacc., hyphomycetous, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Titaeopsis B. Sutton & Deighton 1984, *Ascomycota* genera *incertae sedis*, one species, type: *T. ugandae* (Hansf.) B. Sutton & Deighton, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Titaeospora Bubák 1916, *Ascomycota* genera *incertae sedis*, two species, type: *T. detospora* (Sacc.) Bubák, coelomycetous, sexual morph unknown, lichenicolous, terrestrial, temperate, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Toensbergia Bendiksby & Timdal 2013, *Sporastatiaceae*, *Rhizocarpales*, *Lecanoromycetes*, one

species, type: *T. leucococca* (R. Sant.) Bendiksby & Timdal, lichenized, corticolous, temperate northern hemisphere, see Bendiksby and Timdal (2013; phylogenetic placement), Lücking et al. (2017a; classification), sequences are available, type specimen UPS- L-86993 (holotype).

Togniniella Réblová, L. Mostert, W. Gams & Crous 2004 (= *Phaeocrella* Réblová et al. 2004 *fide* Réblová et al. 2016c), *Calosphaeriaceae*, *Calosphaeriales*, *Sordariomycetes*, twelve species, type: *T. acerosa* Réblová, L. Mostert, W. Gams & Crous, asexual morph formerly named in *Phaeocrella*, from living leaves, terrestrial, New Zealand, see Damm et al. (2008b; DNA, morphology of asci), Lumbsch and Huhndorf (2010; outline), Réblová (2011; phylogeny), Réblová et al. (2016c; phylogeny), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: CBS 113726.

Tolypocladium W. Gams 1971 (= see Species Fungorum 2017 for synonyms), *Elaphocordyceps* G.H. Sung & Spatafora 2007 *fide* Maharachchikumbura et al. 2016b), *Ophiocordycipitaceae*, *Hypocreales*, *Sordariomycetes*, c. 15 species, type: *T. inflatum* W. Gams, hyphomycetous, sexual morph formerly known in *Elaphocordyceps*, on soil, rotifers and mosquito larvae, terrestrial, cosmopolitan, see Sato et al. (2010a, b; new species), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Tomasellia A. Massal. 1856, *Naetrocymbaceae*, *Dothideomycetes* families *incertae sedis*, 50 species, type: *T. arthonioides* (A. Massal.) A. Massal., asexual morph unknown, epiphytes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Naetrocymbaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tomenticola Deighton 1969, *Ascomycota* genera *incertae sedis*, two species, type: *T. trematis* Deighton, hyphomycetous, sexual morph unknown, on living leaves, terrestrial, Africa, see Seifert et al (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Tomeoa I. Hino 1954, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. viridicolliculosa* I. Hino, asexual morph unknown, saprobes, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Tompetchia Subram. 1985, *Ascomycota* genera *incertae sedis*, one species, type: *T. webberi* (H.S. Fawc.) Subram., hyphomycetous, sexual morph unknown, on insects, terrestrial, Australasia, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Toninia A. Massal. [nom. cons.] 1852 (see Species Fungorum 2017 for synonyms), *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, species, 85 species, type: *T. squalida* (Ach.) A. Massal., asexual morph unknown, lichenized, terrestrial, worldwide, see Moniri et al. (2009; taxonomy), Lumbsch and Huhndorf (2010; outline), Farkas et al. (2011; ecology), Schmull et al. (2011; phylogeny), Urbanavichus et al. (2011; new records), Bendiksby and Timdal (2013; phylogeny), Kirk et al. (2013; genus accepted), Zhurbenko and Zhdanov (2013; taxonomy), Maier et al. (2014; ecology), Joshi et al. (2015a; new records), Sezer et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Toniniopsis Frey 1926, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *T. obscura* Frey, lichenized, see Lumbsch and Huhndorf (2010; outline), Lücking et al. (2017a; classification), sequences are unavailable.

Topelia P.M. Jørg. & Vezda, 1984 (= *Clathroporinopsis* M. Choisy 1929 *fide* Species Fungorum 2017), *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, six species, type: *T. rosea* (Servít) P.M. Jørg. & Vezda, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Aptroot et al. (2014c; checklist), Lücking et al. (2017a; classification), sequences are unavailable.

Topeliopsis Kantvilas & Vezda 2000, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, 20 species, type: *T. muscicola* Kantvilas & Vezda, asexual morph unknown, lichenized, terrestrial, see Messuti et al. (2010; new species), Lumbsch and Huhndorf (2010; outline), Sipman et al. (2012; new combinations), Mangold et al. 2009 (key Australia), Rivas Plata et al. (2010a, 2012a; taxonomy), Lücking et al. (2014; new species), Lumbsch et al. (2014a, b; phylogeny), Weerakoon et al. (2015; new species), Lücking et al. (2017a; classification), sequences are available.

Toriella (Kohlm.) Sakay., K.L. Pang & E.B.G. Jones 2011, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. tubulifera* (Kohlm.) Sakay., K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, Canada, Denmark, England, Germany, Iceland, Norway, Sweden, USA, Wales, see Sakayaroj et al. (2011a; morphology, phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), holotype and ex-type of the type: BCC33511, BCC33512, BCC33513.

Tornabea Østh. 1980 (= *Tornabenia* Trevis. 1853; = *Tornabeniopsis* Follmann 1980 *fide* Species Fungorum 2017), *Physciaceae*, *Caliciales*, *Lecanoromycetes*, one

species, type: *T. montagnei* Trevis., asexual morph unknown, lichenized, terrestrial, Iran, Pakistan, Kayseri-Adamna, see Lumbsch and Huhndorf (2010; outline), Moniri (2010; taxonomy), Sohrabi et al. (2010b; taxonomy), Aptroot and Iqbal (2012; checklist), Gaya et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), Parsa et al. (2013; taxonomy), Halici et al. (2014a; taxonomy), Nattah et al. (2014, taxonomy, inventory), Lücking et al. (2017a; classification), Prieto and Wedin (2016; phylogeny), sequences are available.

Toroa Syd. 1926, *Pseudoperisporiaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *T. dimerosporioides* (Speg.) Syd., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Pseudoperisporiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Torpedospora Meyers 1957 (= *Glomerulispora* Abdel-Wahab & Nagah. *fide* Réblová et al. 2016c), *Torpedosporaceae*, *Torpedosporales*, *Sordariomycetes*, five species, type: *T. radiata* Meyers, asexual morph formerly named in *Glomerulispora*, saprobes, marine, worldwide, see Abdel-Wahab et al. (2010; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Réblová et al. (2016c; nomenclature).

Torrendiella Boud. & Torrend 1911 (= *Zoellneria* Velen. 1934 *fide* Species Fungorum 2017), *Rutstroemiaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *T. ciliata* Boud., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; taxonomy, phylogeny), Jaklitsch et al. (2016a; classification), cultures available for the type: F132996.

Torrentispora K.D. Hyde, W.H. Ho, E.B.G. Jones, K.M. Tsui & S.W. Wong 2000, *Annulatascaceae*, *Annulatascales*, *Sordariomycetes*, one species, type: *T. fibrosa* K.D. Hyde, Wai H. Ho, E.B.G. Jones, K.M. Tsui & S.W. Wong, asexual morph unknown, saprobes, aquatic, Hong Kong, Brunei, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Barbosa et al. (2013a; new species, Costa Rica), Maharachchikumbura et al. (2016b; outline), holotype of the type: HKU (M) 4519, cultures and sequences are available.

Torrubiella Boud. 1885, *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, 71 species, type: *T. aranicida* Boud., asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Johnson et al. (2009; taxonomy, DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Sato et al. (2010a; new species), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Tortispora Lachance & Kurtzman 2013, *Trigonopsidaceae*, *Saccharomycetales*, *Saccharomycetes*, eight species, type: *T. ganteri* Lachance & Kurtzman, asexual growth is by multilateral budding, saprophytic, in rotted cacti, Costa Rica, Hawaii, USA, Argentina, Brazil, Mexico, see Lachance et al. (2013a; taxonomy), cultures and sequences are available.

Tortilispora Senan. & K.D. Hyde 2017, *Sydowiellaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *T. aurantiaca* (Wehm.) Senan. & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Europe, see Senanayake et al. (2017; taxonomy, phylogeny), holotype of the type: MICH 13964, cultures and sequences are available.

Tortulomyces Lar. N. Vassiljeva, S.L. Stephenson, Chernyshev & K.D. Hyde 2013, *Nitschkiaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *T. thailandicus* Lar. N. Vassiljeva, S.L. Stephenson, A.V. Chernyshev & K.D. Hyde, asexual morphs unknown, saprobes, terrestrial, south-eastern Asia, see Maharachchikumbura et al. (2016b; outline), holotype of type: MFLU 11-1163, cultures and sequences are unavailable.

Torula Pers. 1795 (= *Hormiscium* Kunze 1817; = *Satwalekera* D. Rao, V.G. Rao & P.Rag. Rao 1970 [1969]; = *Taeniola* Bonord. 1851; = *Tetracolium* Kunze ex Link 1824 *fide* Species Fungorum 2017), *Torulaceae*, *Pleosporales*, *Dothideomycetes*, eleven species, type: *T. herbarum* (Pers.) Link, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Crous et al. (2015a, 2016a; typification, new species, phylogeny), Su et al. (2016b; phylogeny), Li et al. (2016d, phylogeny, new species), neotype and epitype of the type: CBS H-22275, CPC 24114.

Torulaspora Lindner 1904 (= *Azymomyces* E.K. Novák & Zsolt 1961;= *Debaryomyces* Klöcker 1909; = *Zymodebaryomyces* E.K. Novák & Zsolt 1961 *fide* Species Fungorum 2017), *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, six species, type: *T. delbrueckii* (Lindner) Lindner, asexual reproduction is by multilateral budding, saprophytic, soil, plant material, Indonesian ragi, grapes, tree bark, mangrove trees, spoiled fruit juice, dough, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Torulopsiella Bender 1932 (= *Torulopsis* Speg. 1918 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *T. fumaginea* (Speg.) Bender, hyphomycetous, sexual morph unknown, on leaves (sooty moulds), terrestrial, Australasia, South America, see Seifert

et al (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Tothia Bat. 1960, *Venturiaceae*, *Venturiales*, *Dothideomycetes*, two species, type: *T. fuscella* (Sacc.) Bat., asexual morph unknown, saprobes, terrestrial, Austria, Niederösterreich, Hungary and Italy, see Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; morphology; phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline; phylogeny), Liu et al. (2015a; morphology, phylogeny), cultures and sequences are available for all species.

Tovariella Syd. 1930, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *T. pittieriana* Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Towyspora Wanas., E.B.G. Jones & K.D. Hyde 2016, *Lentitheciaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *T. aestuari* Wanas., E.B.G. Jones & K.D. Hyde, coelomycetous, sexual morph unknown, saprobes, terrestrial, UK, see Li et al. (2016a; taxonomy, phylogeny), holotype and ex-isotype of the type: MFLU 15–3543, MFLUCC 15–1274.

Toxicocladosporium Crous & U. Braun 2007, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, 14 species, type: *T. irritans* Crous & U. Braun, asexual morphs hyphomycetous, terrestrial, Africa, Asia, Australia, South America, see Seifert et al. (2011; morphology), Hyde et al. (2013; accepted as a genus in *Cladosporiaceae*), Wijayawardene et al. (2012, 2014c, 2017; outline), Crous et al. (2016b; new species, phylogeny), Bezerra et al. (2017b; new species), holotype and ex-type strains of the type: CBS-H 19892, CBS 185.58.

Toxosporiella B. Sutton 1986, *Ascomycota* genera *incertae sedis*, one species, type: *T. bactrodesmioides* B. Sutton, coelomycetous, sexual morph unknown, on leaves (sooty moulds), terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Toxosporiopsis B. Sutton & Sellar 1966, *Ascomycota* genera *incertae sedis*, one species, type: *T. capitata* B. Sutton & Sellar, coelomycetous, sexual morph unknown, on leaves (sooty moulds), terrestrial, Australia, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trabutia Sacc. & Roum. 1881, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *T. abortiva* (F. Stevens) Sivan., from living leaves, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus not listed), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tracylla (Sacc.) Tassi 1904 (= *Leptothyrium* subgen. *Tracylla* Sacc. 1895; = *Mitrorhizopeltis* Bat. & Cavalc. (1964) [1963] *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *T. spartinae* (Peck) Tassi, coelomycetous, saprobes, terrestrial, Brazil, Dominican Republic, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trailia G.K. Sutherl. 1915, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, three species, type: *T. ascophylli* G.K. Sutherl, asexual morph unknown, terrestrial, one marine on brown seaweeds, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Trapelia M. Choisy [nom. cons.] 1929 (= *Discocera* A.L. Sm. & Ramsb. 1918) [1917]; = *Trapelina* Motyka 1996 *fide* Species Fungorum 2017), *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, 13 species, type: *T. coarctata* (Turner ex Sm.) M. Choisy, asexual morph unknown, lichenized, terrestrial, Macaronesia, Korea, Australia, Romania, Poland, Italy, Iraq, India, see Czarnota and Kukwa (2009; taxonomy), Baloch et al. (2010; phylogeny), Çobanoğlu et al. (2010; new records), Hodkinson (2010; biodiversity), Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Tsurykau and Khramchankova (2011; checklist), Aptroot and Schumm (2012a; new species and new records), Łubek (2012; ecology), Rajakaruna et al. (2012; new record), Wieczorek and Łysko (2012; taxonomy), Joshi et al. (2013a; new records), Kirk et al. (2013; genus accepted), Vondrák and Liška (2013; checklist), Ertz et al. (2014a; new species), Giralt et al. (2014; taxonomy), Brodo and Lendemer (2015; new species), Goni and Sharma (2015; new records), Kantvilas et al. (2015; new species), Resl et al. (2015; phylogeny), Telfer et al. (2015; biodiversity inventory, DNA barcoding), Aziz and Qadir (2016; new records), Schneider et al. (2016; phylogeny and partial sequence), Lücking et al. (2017a; classification), sequences are available.

Trapeliopsis Hertel & Gotth. Schneid. 1980, *Trapeliaceae*, *Trapeliales*, *Lecanoromycetes*, 20 species, type: *T. wallrothii* (Flörke ex Spreng.) Hertel & Gotth. Schneid., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hodkinson and Lendemer (2011b; taxonomy), Aptroot and Schumm (2012a; new species), Elix (2013; *Trapeliopsis granulosa* var. *australis*, new species), Kirk et al. (2013;

genus accepted), Sanz- Resl et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification), sequences are available for the type: CP956.

Traponora Aptroot 1997, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, five species, type: *T. asterella* Aptroot, asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Trematei a Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1995, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *T. halophila* Kohlm., Volkm.-Kohlm. & O.E. Erikss., asexual morph phoma-like., saprobes, marine, Atlantic Coast, see Suetrong et al. (2009; phylogeny, morphology), Jones et al. (2009b, 2015; classification), Ariyawansa et al. (2014e; accepted as a genus in *Didymosphaeriaceae*), Wijayawardene et al. (2014c; outline), holotype of type: J.K. 5522 (IMS).

Trematophoma Petr. 1924, *Ascomycota* genera *incertae sedis*, two species, type: *T. lignicola* Petr., coelomycetous, saprobes, terrestrial, Brazil, Dominican Republic, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available for unidentified species.

Trematosphaeria Fuckel 1870 (= *Botanamphora* Nograsek & Scheuer 1990 *fide* Species Fungorum 2017), *Trematosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, c. 20 species, type: *T. pertusa* Fuckel, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Pleosporales*, genera incertae sedis), Suetrong et al. (2011b; phylogeny, new family), Hyde et al. (2013; accepted as a genus in *Trematosphaeriaceae*, phylogeny), Kirk et al. (2013; genus accepted), Zhang et al. (2012e; phylogeny), Ahmed et al. (2014a; new species), Wijayawardene et al. (2014c; outline), Zhou et al. (2014; new species), Tanaka et al. (2015; phylogeny), cultures and sequences are available.

Trematosphaeriopsis Elenkin 1901, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. parmeliana* Jacz. & Elenkin, lichenicolous, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Dai et al. (2014a; taxonomy), Wijayawardene et al. (2014c; outline), sequences are unavailable.

Trematovalsa Jacobesco 1906, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *T. matruchotii* Jacobesco, asexual morph unknown, saprobes, terrestrial, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tremellidium Petr. 1927 (= *Kordyanella* Höhn. 1904 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *T. piskorzii* Petr., coelomycetous, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tremolecia M. Choisy 1953, *Hymeneliaceae*, *Lecanorales*, *Lecanoromycetes*, six species, type: *T. dicksonii* (Ach.) M. Choisy, asexual morph unknown, lichenized, terrestrial, Australia, Asia, North America, see Hansen (2009, 2014, 2015; taxonomy), Lumbsch and Huhndorf (2010; outline), Aptroot and Iqbal (2012; checklist), Kirk et al. (2013; genus accepted), Kantvilas (2014b; taxonomy, new species), McCune and Rosentreter (2014; new records), Miądlikowska et al. (2014a; molecular), Lücking et al. (2017a; classification); sequences are available.

Tremotylium Nyl. 1868 (= *Phanotylium* Clem. 1909 *fide* Species Fungorum 2017), *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, type: *T. angolense* Nyl., one species, lichenized, terrestrial see Makhija and Patwardhan (1995: systematics), Lücking et al. (2017b: classification), sequences are unavailable.

Trenomyces Chatton & F. Picard 1909, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eleven species, type: *T. histophtorus* Chatton & F. Picard, asexual morph unknown, biotrophic, dioecious, hosts are Mallophaga (Arthropoda: Phthiraptera), widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence are unavailable.

Tretocephala Subram. 1995 (= *Tretocephala* Subram. 1992 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *T. decidua* Subram., hyphomycetous, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tretolylea Cantillo, R.F. Castañeda & Gusmão 2015, *Ascomycota* genera *incertae sedis*, one species, type: *T. pleiomorpha* T. Cantillo, R.F. Castañeda & Gusmão, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Cantillo-Pérez et al. (2016; morphology), holotype of the type: HUEFS 211337, cultures and sequences are unavailable, compare with *Capnophialophora*, *Capnosporium Heteroconium*, *Lylea*, *Taeniolella* and *Taeniolina*.

Tretospeira Piroz. 1972, *Ascomycota* genera *incertae sedis*, one species, type: *T. ugandensis* (Hansf.) Piroz., hyphomycetous, saprobes, terrestrial, Africa, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tretovularia Deighton 1984, *Ascomycota* genera *incertae sedis*, one species, type: *T. villiana* (Magnus) Deighton, hyphomycetous, saprobes, terrestrial, Europe,

see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Treubiomyces Höhn. 1909 (= *Chaetomeris* Clem. 1931; = *Marceloa* Bat. & Peres 1962; = *Mycostevensonia* Bat. & Cif. 1962; = *Paropsis* Speg. 1918 *fide* Species Fungorum 2017), *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, seven species, type: *T. pulcherrimus* Höhn., asexual morph unknown, epiphytes, sooty moulds, terrestrial, America, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Triacutus G.L. Barron & Tzean 1981, *Sordariomycetes* genera *incertae sedis*, 18 species, type: *T. subcuticularis* G.L. Barron & Tzean, hyphomycetous, saprobes, from soil, on immunocompromised patients, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Edathodu et al. (2013; human pathogens *Triadelphia pulvinata*, DNA, treated as *Hypocreomycetidae incertae sedis*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable for the type, genus could be polyphyletic.

Triadelphia Shearer & J.L. Crane 1971, *Microascales* genera *incertae sedis*, *Sordariomycetes*, 18 species, type: *T. heterospora* Shearer & J.L. Crane, hyphomycetous, sexual morph unknown, saprobes, human pathogen, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Triainomyces W. Rossi & A. Weir 1998, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, *T. hollowayanus* W. Rossi & A. Weir, asexual morph unknown, biotrophic, known from *Procyliosoma tuberculatum* (Diplopoda: Chilognatha: Oniscomorpha: Sphaerotheriidae), New Zealand, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable, needs revision.

Triangularia Boedijn 1934 (= Trigonia J.F.H. Beyma 1933 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, six species, type: *T. bambusae* (J.F.H. Beyma) Boedijn, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Triblidium Rebent. 1805 (= *Blitridium* De Not. (1864) [1863]; = *Phacidiopsis* Hazsl. 1873; = *Triblidium* subgen. *Triblidium* Rebent. 1805 *fide* Species Fungorum 2017), *Triblidiaceae*, *Triblidiales*, *Leotiomycetes*, six species, type: *T. caliciforme* Rebent., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch and Voglmayr (2016; classification), cultures and sequences are unavailable.

Tribolospora D.A. Reid 1966, *Ascomycota* genera *incertae sedis*, one species, type: *T. sycopsidis* D.A. Reid, coelomycetous, sexual morph unknown, saprobes, on leaves of *Sycopsis dunnii*, New Guinea, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tribulatia Joanne E. Taylor, K.D. Hyde & E.B.G. Jones 2003, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *T. appendicospora* Joanne E. Taylor, K.D. Hyde & E.B.G. Jones, saprobes, Queensland, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tricellula Beverw. 1954, *Ascomycota* genera *incertae sedis*, one species, type: *T. inaequalis* Beverw., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology, accepted as a genus in *Orbiliaceae*), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Triceromyces T. Majewski 1980, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, eight species, type: *T. balazucii* T. Majewski, no asexual state, biotrophic, monoecious, dioecious, and trioecious, hosts are Hebridae, Hydrometridae, and Veliidae (Hemiptera: Heteroptera), worldwide, see Santamaría (2008; morphology, review), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Tricharia Fée 1825 (= *Microxyphiomyces* Bat. 1961; = *Psathyromyces* Bat. & Peres (1964) [1963] *fide* Species Fungorum 2017), *Gomphillaceae*, *Ostropales*, *Lecanoromycetes*, 30 species, type: *T. melanothrix* Fée, asexual morph unknown, lichenized, terrestrial, India, Brazil, Colombia, see Lumbsch and Huhndorf (2010; outline), Lumbsch et al. (2011; new species), Messuti et al. (2011; new species), Mateus et al. (2012; taxonomy), Kirk et al. (2013; genus accepted), Rashmi and Rajkumar (2015; taxonomy, new record), Sanders and Lücking (2015; new species), Sanders and de los Rios (2016; morphotaxonomy), Gupta and Sinha (2016; new report), Lücking et al. (2017a; classification), van den Boom and Sipman (2016; new records), sequences are available.

Tricharina Eckblad 1968 (= *Tricharia* Boud. 1885 *fide* Species Fungorum 2017), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 15 species, type: *T. gilva* (Boud. ex Cooke) Eckblad, asexual morph unknown, hypogeous, terrestrial, temperate, see Benkert (2010; new species), Lumbsch and Huhndorf (2010; outline), Hansen (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted),

Stielow et al. (2013; phylogeny), Kušan et al. (2015b; new species), Lindemann and Böhning (2016; new species), sequences are available for voucher DED 7356 (SFSU) of the type: (*fide* Hansen et al. 2013).

Trichasterina G. Arnaud 1918 (= *Doguetia* Bat. & J.A. Lima 1960; = *Trichosia* Bat. & R. Garnier 1960 *fide* Species Fungorum 2017), *Asterinaceae*, *Asterinales*, *Dothideomycetes*, nine species, type: *T. styracis* (Theiss.) G. Arnaud, asexual morph unknown, foliar epiphytes, terrestrial, tropical, three species, cultures and sequences are unavailable, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Asterinaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014c; taxonomy, accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichobolbus Bat. 1964, *Ascomycota* genera *incertae sedis*, one species, type: *T. palmae* Bat. & Cavalc, coelomycetous, sexual morph unknown, saprobes, on leaves of Palmae, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichobolus (Sacc.) Kimbr. & Cain 1967, *Ascodesmidaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *T. zukalii* (Heimerl) Kimbr., asexual morph unknown, saprobes, from soil, on dung, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Doveri (2012; new species, coprophilous, Italy), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Trichobotrys Penz. & Sacc. 1902, *Ascomycota* genera *incertae sedis*, four species, type: *T. pannosa* Penz. & Sacc., hyphomycetous, saprobes, from soil, terrestrial, Africa, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichocladium Harz 1871 (= *Harziella* Kuntze 1891 *fide* Species Fungorum 2017), *Chaetomiaceae*, *Sordariales*, *Sordariomycetes*, 32 species, type: *T. asperum* Harz, hyphomycetous, sexual morph unknown, terrestrial, aquatic, saprobes, worldwide, see Abdel-Wahab (2011b; phylogeny), Seifert et al. (2011; morphology), Abdel-Wahab and Bahkali (2012; phylogeny), Wijayawardene et al. (2012, 2017; outline), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), polyphyletic.

Trichocoma Jungh. 1838 (= *Trichoskytale* Corda 1842 *fide* Species Fungorum 2017), *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, two species, type: *T. paradoxa* Jungh., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Houbraken and Samson (2011; phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 247.57, CBS 788.83 (fide Houbraken and Samson 2011).

Trichoconis Clem. 1909 (= *Appelia* (Sacc. & D. Sacc.) Trotter 1931; = *Pyricularia* sect. *Appelia* Sacc. & D. Sacc. 1906 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 20 species, type: *T. caudata* (Appel & Strunk) Clem., hyphomycetous, saprobes, terrestrial, pantropic, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Brackel (2014; new species), cultures and sequences are available but lacking for the type.

Trichodelitschia Munk 1953, *Phaeotrichaceae*, *Phaeotrichales*, *Dothideomycetes*, four species, type: *T. bisporula* (P. Crouan & H. Crouan) Munk, asexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; outline, phylogeny), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures available for the type: CBS 262.69.

Trichoderma Pers. 1794 (= *Hypocrea* Fr. 1825; = *Aphysiostroma* Barrasa, A.T. Martínez & G. Moreno 1986 *fide* Rossman et al. 2013b; Jaklitsch and Voglmayr 2015), *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, c. 100 species, type: *T. viride* Pers., hyphomycetous, sexual morph *Hypocrea*, in soil, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2013b; nomenclature), Jaklitsch and Voglmayr (2015; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Trichodiscula Vouaux 1910, *Ascomycota* genera *incertae sedis*, one species, type: *T. lesdainii* Vouaux, coelomycetous, saprobes, terrestrial, France, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichodochium Syd. 1927, *Ascomycota* genera *incertae sedis*, one species, type: *T. disseminatum* Syd., hyphomycetous, saprobes, terrestrial, Asia, Central and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichodothella Petr. 1946, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. blumeri* Petr. ex S. Blumer, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Zhang et al. (2011d; morphology, accepted as a genus in *Venturiaceae*), Hyde et al. (2013) did not accept as a

genus in Venturiaceae, Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichodothis Theiss. & Syd. 1914, *Dothideomycetes* genera *incertae sedis*, three species, type: *T. comata* (Berk. & Ravenel) Theiss. & Syd., asexual morph unknown, saprobes, North America, Africa, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Venturiaceae*), Zhang et al. (2011d; provisionally included in *Venturiaceae*), Hyde et al. (2013) did not accept as a genus in *Venturiaceae*, Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichoglossum Boud. 1885, *Geoglossaceae*, *Geoglossales*, *Geoglossomycetes*, 20 species, type: *T. hirsutum* (Pers.) Boud., asexual morph unknown, on soil, saprobes, terrestrial, temperate, see Schoch et al. (2009; phylogeny, accepted as a genus in *Rutstroemiaceae*), Kučera et al. (2010; new records in Slovakia), Lumbsch and Huhndorf (2010; outline), Akata and Kaya (2013; new records in Turkey), Hustad et al. (2013; DNA, phylogeny), sequences are available for the type.

Trichohelotium Killerm. 1935, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, two species, need typification, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichomaris Hibbits, G.C. Hughes & Sparks 1981, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. invadens* Hibbits, G.C. Hughes & Sparks, on tanner crab, marine, Alaska, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Trichomatoclava G.F. Sepúlveda, Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, one species, type: *T. cerradensis* G.F. Sepúlveda, Pereira-Carv. & Dianese, hyphomycetous, saprobes, terrestrial, South America, see Pereira-Carvalho et al. (2009b; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of type: UB (Mycol. Col.) 19442, cultures and sequences are unavailable.

Trichomatomyces Dorn.-Silva & Dianese 2004, *Ascomycota* genera *incertae sedis*, one species, type: *T. byrsonimae* (Bat. & Peres) Dorn.-Silva & Dianese, hyphomycetous, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Trichomatosphaera Pereira-Carv., G.F. Sepúlveda & Dianese 2009, *Ascomycota* genera *incertae* sedis, one species, type: *T. cerradensis* Pereira-Carv., G.F. Sepúlveda & Dianese, hyphomycetous, saprobes, terrestrial, South America, see Pereira-Carvalho et al. (2009b; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: UB (Mycol. Col.) 19597, cultures and sequences are unavailable.

Trichomerium Speg. 1918, *Trichomeriaceae*, *Chaetothyriales*, *Eurotiomycetes*, 32 species, type: *T. coffeicola* (Puttemans) Speg., asexual morph hyphomycetous, possibly *Tripospermum* Speg., epiphytes or saprobes, sooty moulds, terrestrial, Australia, Brazil, Thailand, see Lumbsch and Huhndorf (2010; outline), Chomnunti et al. (2012a; morphology; phylogeny), Liu et al. (2015a; morphology, phylogeny), Hongsanan et al. (2016b; asexual morph of *T. gloeosporum*), Hyde et al. (2016; morphology, phylogeny), cultures and sequences are available but lacking for type.

Trichometasphaeria Munk 1953, *Dothideomycetes* genera *incertae sedis*, eight species, type: *T. dianthi* (Rostr.) Munk, asexual morph coelomycetous, saprobes, North America, see Chlebicki (2009a; new species), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichonectria Kirschst. 1907, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, 19 species, type: *T. aculeata* Kirschst., asexual morph unknown, saprobes, lichenicolous, terrestrial, Austria, see Etayo and Sancho (2008; new species), Lumbsch and Huhndorf (2010; outline), Brackel (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Farkas and Flakus (2016; new species), cultures and sequences are available but lacking for the type.

Trichopeltella Höhn. 1910 (= *Raciborskiella* Speg. 1919 [1918] *fide* Species Fungorum 2017), *Trichopeltinaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *T. montana* (Racib.) Höhn., asexual morph unknown, epiphytes, Java, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014a; accepted as a genus in *Trichopeltinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichopeltheca Bat., C.A.A. Costa & Cif. 1958, *Trichopeltinaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *T. asiatica* Bat., C.A.A. Costa & Cif., asexual morph unknown, epiphytes, Asia, Pacific, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014a; accepted as a genus in *Trichopeltinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichopeltina Theiss. 1914 (= *Trichopeltina* Theiss., Centbl. Bakt. ParasitKde, Abt. II 39: 630 (1914) *fide* Species Fungorum 2017), *Trichopeltinaceae*,

Dothideomycetes families *incertae sedis*, two species, type: *T. labecula* (Mont.) Theiss., asexual morph unknown, epiphytes, South America, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014a; accepted as a genus in *Trichopeltinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichopeltospora Bat. & Cif. 1958, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, two species, type: *T. pipericola* Bat., Cif. & C.A.A. Costa, asexual morph unknown, epiphytes, terrestrial, worldwide, no molecular data, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; taxonomy), Hongsanan et al. (2014c; keys), Wijayawardene et al. (2014c; outline), holotype of type: URM 2492, cultures and sequences are unavailable.

Trichopeltulum Speg. 1889 (= *Trichopeltium* Clem. 1909 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *T. pulchellum* Speg., coelomycetes, sexual morph unknown, saprobes, terrestrial, Hawaii, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichopeltum Bat., Cif. & C.A.A. Costa (1958) [1957], ?*Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, type: T. *hawaiiense* Bat. & C.A.A. Costa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wu et al. (2011; did not accept the placement).

Trichopeziza Fuckel 1870, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, 30 species, type: *T. sulphurea* (Pers.) Fuckel, asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), cultures available for the type: KUS-F52218.

Trichophaea Boud. 1885 (= *Dichobotrys* Hennebert 1973 *fide* Healy et al. 2016), *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, 32 species, type: *T. woolhopeia* (Cooke & W. Phillips) Boud., asexual morph unknown, hypogeous, saprobes, terrestrial, worldwide, see Benkert (2010; new species), Lumbsch and Huhndorf (2010; outline), Rubini et al. (2011; DNA, phylogeny), Hansen (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), Stielow et al. (2013; phylogeny), Perić et al. (2014; new species), sequences are available.

Trichophaeopsis Korf & Erb 1972, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *T. bicuspis* (Boud.) Korf & Erb, asexual morph unknown, hypogeous, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available.

Trichophyma Rehm 1904, *Arthoniales* genera *incertae sedis*, two species, type: *T. bunchosiae* Rehm, asexual morph unknown, lichenicolous, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype of the type: E. Ule 1120 (S), cultures and sequences are unavailable.

Trichophyton Malmsten 1848 (see Species Fungorum 2017 for synonyms), *Arthrodermataceae*, *Onygenales*, *Eurotiomycetes*, 32 species, type: *T. tonsurans* Malmsten, hyphomycetous, sexual morph unknown, on humans and other animal, saprobes, on soil, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Hubka et al. (2014c; new species), Lorch et al. (2014; new species), Hiruma et al. (2016; DNA, mating types), culture and sequences are available for the type.

Trichoseptoria Cavara 1892 (= *Macroseptoria* Petr. 1923 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *T. alpei* Cavara, coelomycetes, sexual morph unknown, saprobes, terrestrial, Europe, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichospermella Speg. 1912, *Sordariomycetes* genera *incertae sedis*, one species, type: *T. pulchella* Speg., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Trichosphaerella E. Bommer, M. Rousseau & Sacc. 1891 (= *Bresadolella* Höhn. 1903; = *Larseniella* Munk 1942; = *Neorehmia* Höhn. 1902; = *Oplotheciopsis* Bat. & Cif. 1963; = *Oplothecium* Syd. & P. Syd. 1923; = *Trichohleria* Sacc. 1908 *fide* Species Fungorum 2017), *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *T. decipiens* E. Bommer, M. Rousseau & Sacc., asexual morph unknown, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Whitton et al. (2012b; morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Lendemer et al. (2016; new species), cultures and sequences are unavailable for type.

Trichosphaeria Fuckel 1870 (= *Bakeromyces* Syd. & P. Syd. 1917; = *Pseudorhynchia* Höhn. 1909 *fide* Species Fungorum 2017), *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, c. 20 new species, type: *T. pilosa* (Pers.) Fuckel, saprobes, terrestrial, widespread, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for type: 089319.

Trichosphaeropsis Bat. & Nascim. 1960, *Sordariomycetes* genera *incertae sedis*, one species, type: *T. crescentiae* Bat. & Nascim., asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted),

Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Trichosporiella Kamyschko 1960, *Ascomycota* genera *incertae sedis*, two species, type: *T. hyalina* Kamyschko, hyphomycetous, sexual morph unknown, saprobes, oh human, on soil, terrestrial, Asia, Europe, see Seifert et al. (2011; morphology, accepted as a genus in *Sordariales*), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequence available for unidentified species.

Trichosporodochium Dorn.-Silva & Dianese 2004, *Ascomycota* genera *incertae sedis*, two species, type: *T. cerradensis* Dorn.-Silva & Dianese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trichothallus F. Stevens 1925 (= *Plokamidomyces* Bat. et al. 1958; *Trichopeltheca* Bat. et al. 1958 *fide* Rossman et al. 2016a), *Euantennariaceae*, *Dothideomycetes* families *incertae sedis*, two species, type: *T. hawaiiensis* F. Stevens, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, Oceania, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Trichothecium Link 1809 (= *Cephalothecium* Corda 1838; = *Hyphelia* Fr. 1825; = *Hyphoderma* Fr. 1849 = *Trichodermia* Hoffm. 1795; = *Trichotheciopsis* J.M. Yen 1979 *fide* Species Fungorum 2017), *Hypocreales* genera *incertae sedis*, nine species, type: *T. roseum* (Pers.) Link, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Summerbell et al. (2011; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Trichothelium Müll. Arg. 1885 (= *Actiniopsis* Starbäck 1899; = *Asteropeltis* Henn. 1904; = *Ophiodictyon* Sacc. & P. Syd. 1902; = *Stereochlamydomyces* Cif. & Tomas. 1953; = *Stereochlamys* Müll. Arg. 1885; = *Trichotheliomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Porinaceae*, *Ostropales*, *Lecanoromycetes*, 40 species, type: *T. epiphyllum* Müll. Arg., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Trichothyriella Theiss. 1914, *Dothideomycetes* genera *incertae sedis*, one species, type: *T. quercigena* (Berk. ex Cooke) Theiss., asexual morph unknown, terrestrial, South East Asia, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Wu et al. (2011; treated as a doubtful genus), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichothyrinula Petr. 1950, *Trichopeltinaceae*, *Dothideomycetes* families *incertae sedis*, one species, type: *T. labecula* (Mont.) Theiss., asexual morph unknown, epiphytes, Ecuador, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; morphology), Kirk et al. (2013; genus accepted), Hongsanan et al. (2014a; accepted as a genus in *Trichopeltinaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Trichothyrium Speg. 1889 (= *Trichopeltis* Speg. 1889; = *Trichopeltopsis* Höhn. 1909; = *Trichopeltula* Theiss. 1914 *fide* Species Fungorum 2017), *Trichothyriaceae*, *Dothideomycetes* families *incertae sedis*, twelve species, type: *T. sarciniferum* Speg., asexual morph unknown, saprobes, terrestrial, subtropical, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Hyde et al. (2013; accepted as a genus in *Trichothyriaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Tricladiella K. Ando & Tubaki 1984, *Ascomycota* genera *incertae sedis*, one species, type: *T. pluvialis* K. Ando & Tubaki, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tricladiopsis Descals 1982, *Ascomycota* genera *incertae sedis*, two species, type: *T. foliosa* Descals, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, Europe, Central and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tricladiospora Nawawi & Kuthub. 1988, *Ascomycota* genera *incertae sedis*, three species, type: *T. stricta* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tricladium Ingold 1942, *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 25 species, type: *T. splendens* Ingold, hyphomycetous, saprobes, aquatic, worldwide, see Campbell et al. (2009b; evolutionary relationships), Seifert et al. (2011, polyphyletic), Gulis et al. (2012; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Baschien et al. (2013;

molecular phylogeny), sequences are available for 15 species, compare with *Varicosporium*, holotype of type: CBS 234.46, MUCL 28105.

Trifurcospora K. Ando & Tubaki 1988, *Ascomycota* genera *incertae sedis*, two species, type: *T. irregularis* (Matsush.) K. Ando & Tubaki, hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trigonopsis Schachner emend. Kurtzman & Robnett 2007, *Trigonopsidaceae*, *Saccharomycetales*, *Saccharomycetes*, four species, type: *T. variabilis* Schachner, asexual reproduction is by multilateral budding, saprophytic, grape must, wine, beer, worldwide, cultures and sequences are available.

Trigonosporium Tassi 1900, *Ascomycota* genera *incertae sedis*, two species, type: *T. australiense* Tassi, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trimmatostroma Corda 1837, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, c. 30 species type: *T. salicis* Corda, sexual morph unknown, saprobes, terrestrial, aquatic, halophilic, worldwide, see Vaupotič et al. (2008; physiology), Bartosik et al. (2010; biodeterioration), Diederich et al. (2010a; new species), El-Said et al. (2010; Egypt), Mansour (2010; Libya), Sepcic et al. (2010; metabolite profiling), Shenoy et al. (2010; phylogeny), Mohammadi (2011; spectrofluorometry), Ruiz-González et al. (2013; isolation protocol), Sarma and Raghukumar (2013; India), Gessler et al. (2014; review), Gunde-Cimerman and Zalar (2014; solar salterns), Heuchert and Braun (2014; new species), cultures and sequences are available.

Trimmatothele Norman ex Zahlbr. 1903, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, three species, type: *T. perquisita* (Norman) Norman ex Zahlbr., lichenized, see Lücking et al. (2017a; classification), sequences are available.

Trimmatothelopsis Zschacke 1934, *Acarosporaceae*, *Acarosporales*, *Lecanoromycetes*, one species, type: *T. versipellis* (Nyl.) Zschacke, lichenized, see Gueidan et al. (2014c; taxonomy), Roux et al. (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Trinacrium Riess 1852, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, ten species, type: *T. subtile* Riess, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trinathotrema Lücking, Rivas Plata & Mangold 2011, *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, three species, type: *T. stictideum* (Nyl.) Lücking, R. Miranda & Kalb, asexual morph unknown, lichenized, terrestrial, Bolivia, Canary Iceland, see Boom and Ertz (2012; new species, new records), Flakus et al. (2013; taxonomy), Lücking et al. (2017a; classification); sequences are available.

Trinosporium Crous & Decock 2012, *Xylonomycetaceae*, *Xylonomycetales*, *Xylonomycetes*, *T. guianense* Crous & C. Decock, coelomycetous, sexual morph unknown, as a contaminant, see Crous et al. (2012e; taxonomy), Gazis et al. (2016; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Triplosphaeria Kaz. Tanaka & K. Hiray. 2009, *Tetraplosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *T. maxima* Kaz. Tanaka & K. Hirayama, asexual morph hyphomycetous, saprobes, terrestrial, Japan, see Tanaka et al. (2009; morphology, phylogeny), Lumbsch and Huhndorf (2010; outline), Wijayawardene et al. (2014c; outline), holotype and ex-type of the type: HHUF29330, JCM 13172.

Tripoconidium Subram. 1978, *Ascomycota* genera *incertae sedis*, one species, type: *T. aphanophagum* (Drechsler) Subram., hyphomycetous, sexual morph unknown, on nematodes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tripospermum Speg. 1918 (= *Pentaposporium* Bat. 1957 *fide* Species Fungorum 2017), *Neodevriesiaceae*, *Capnodiales*, *Dothideomycetes*, 27 species, type: *T. acerinum* (P. Syd.) P. Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Rocha et al. (2010; new species), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Quaedvlieg et al. (2014; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Tripospora Sacc. 1886 (= *Tripocorynelia* Kuntze 1898 *fide* Species Fungorum 2017), *Coryneliaceae*, *Coryneliales*, *Eurotiomycetes*, four species, type: *T. cookei* Sacc., asexual morph unknown, saprobes, South Africa, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Triposporina Höhn. 1912, *Ascomycota* genera *incertae sedis*, two species, type: *T. uredinicola* Höhn., hyphomycetous, sexual morph unknown, fungicolous, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Triposporium Corda 1837, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, 41 species, type: *T. elegans* Corda, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c; outline, accepted as a genus in *Asterinaceae*), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species, phylogeny, accepted as a *Helotiales*), Wijayawardene et al. (2017; outline), cultures and sequences are available but lacking for the type, taxonomic placement is based on sequence of non-type.

Tripterosporella Subram. & Lodha 1968 (= *Cleistobombardia* J.H. Mirza 1968 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, six species, type: *T. coprophila* Subram. & Lodha, asexual morph unknown, saprobes, coprophilous, terrestrial, Asia, Africa, see Doveri (2010; new species and two varieties), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Triramulispora Matsush. 1975, *Ascomycota* genera *incertae sedis*, three species, type: *T. gracilis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Triscelophorus Ingold 1943, *Ascomycota* genera *incertae sedis*, eight species, type: *T. monosporus* Ingold, hyphomycetous, saprobes, aquatic, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Fiuza et al. (2015a; morphology), cultures and sequences are available.

Triscelosporium Nawawi & Kuthub. 1987, *Ascomycota* genera *incertae sedis*, one species, type: *T. verrucosum* Nawawi & Kuthub., hyphomycetous, sexual morph unknown, saprobes, aquatic, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: IMI 313480, cultures and sequences are unavailable.

Tristratiperidium Daranag., Camporesi & K.D. Hyde 2015, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *T. microsporum* Daranag., Camporesi & K.D. Hyde, asexual morph hyphomycetous, saprobes, terrestrial, Italy, Europe, one species, see Daranagama et al. (2016b; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), ex-type strains of type: MFLUCC 15-0413; holotype MFLU 15-0656.

Trisulcosporium H.J. Huds. & B. Sutton 1964, *Ascomycota* genera *incertae sedis*, one species, type: *T. acerinum* H.J. Huds. & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, aquatic, Africa, Asia, Europe, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trizodia Laukka 2010, *Ascomycota* genera *incertae sedis*, one species, type: *T. acrobia* Laukka, lichenized, terrestrial, Finland, see Stenroos et al. (2010; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Trochila Fr. 1849 (= *Pyrenotrochila* Höhn. 1917 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, 15 species, type: *T. craterium* (DC.) Fr., asexual morph unknown, saprobes, terrestrial, temperate, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dermateaceae*), Kirk et al. (2013; genus accepted), Pärtel et al. (2017; DNA, phylogeny, accepted as a genus in *Cenangiaceae*), cultures available for the type: KL333.

Trochoideomyces Thaxt. 1931, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, one species, *T. gracilicaulis* Thaxt., asexual morph unknown, biotrophic, only known from *Trochoideus desjardinsii* (Coleoptera: Endomychidae), Malaysian Borneo, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trochophora R.T. Moore 1955 (= *Helicostilbe* Linder 1929 *fide* Species Fungorum 2017), *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *T. simplex* (Petch) R.T. Moore, hyphomycetous, sexual morph unknown, plant pathogens on *Daphnphyllum* shrubs and trees in Asia, terrestrial, see Crous et al. (2009a; morphology, phylogeny), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype NY00945981, for epitype see Videira et al. (2017).

Troglomyces S. Colla 1932, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, six species, type: *T. manfredii* S. Colla, asexual morph unknown, biotrophic on millipedes (Blaniulidae & Julidae), mostly Europe, Madeira, Tenerife, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Santamaría et al. (2014 morphology), Enghoff and Santamaría (2015, morphology, taxonomy, key, specificity and transmission), cultures and sequences are unavailable.

Tromeropsis Sherwood 1981, *Ascomycota* genera *incertae sedis*, one species, type: *T. microtheca* (P. Karst.) Sherwood, asexual morph unknown, saprobes, terrestrial, Finland, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Troposporella P. Karst. 1892 (= *Slimacomyces* Minter 1986 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, four species, type: *T. fumosa* P. Karst., hyphomycetous, sexual morph unknown, saprobes, aquatic, Australasia, Europe, North and South America, see Tsui and Berbee (2010; new species, DNA, phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: MUCL 15695.

Troposporium Harkn. 1884, *Ascomycota* genera *incertae sedis*, one species, type: *T. album* Harkn., hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tropos poropsis Whitton, McKenzie & K.D. Hyde 1999, *Ascomycota* genera *incertae sedis*, two species, type: *T. atroapicis* Whitton, McKenzie & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Australasia, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Trullula Ces. 1852 (= *Cesatia* Rabenh. 1850; = *Epidochium* subgen. *Hormodochium* Sacc. 1886; = *Hormodochis* Clem. 1909; = *Hormodochium* (Sacc.) Höhn. 1911 *fide* Species Fungorum 2017), *Leotiomycetes* genera *incertae sedis*, 15 species, type: *T. oreoselini* Ces., coelomycetous, sexual morph unknown, saprobes, terrestrial, north temperate, see Wijayawardene et al. (2012, 2016b; outline, taxonomy, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type, taxonomic placement is based on sequences of non-type.

Truncatella Steyaert 1949 (= *Ahmadinula* Petr. 1953; = *Chailletia* Fuckel 1864; = *Pseudopestalotia* Elenkin & Ohl 1912 *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, eleven species, type: *T. truncata* (Lév.) Steyaert, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2015; new species, phylogeny), Tibpromma et al. (2017b; new data), cultures and sequences are available.

Tryblidaria (Sacc.) Rehm 1903 (= *Blitridium* subgen. *Tryblidaria* Sacc. 1889 *fide* Species Fungorum 2017), *Patellariaceae*, *Patellariales*, *Dothideomycetes*, nine species, type: *T. breutelii* Rehm, asexual morph unknown, saprobes, terrestrial, subtropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Patellariaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Yacharoen et al. (2015; accepted as a genus in *Patellariaceae*), cultures and sequences are unavailable.

Tryblidiopsis P. Karst. 1871 (= *Biatorellina* Henn. 1903; = *Tryblidis* Clem. 1909 *fide* Species Fungorum 2017), *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, three species, type: *T. pinastri* (Pers.) P. Karst., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; listed as *Triblidiopsis*), Kirk et al. (2013; genus accepted), Wang et al. (2014a; DNA, phylogeny), cultures and sequences are available for the type: AFTOL-ID 1319.

Tryblidiopycnis Höhn. 1918, *Ascomycota* genera *incertae sedis*, one species, type: *T. pinastri* Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tryblis Clem. 1931, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *T. arnoldii* (Rehm) Clem., asexual morph unknown, ?saprobes, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable

Trypetheliopsis Asah. 1937, *Monoblastiaceae*, *Monoblastiales*, *Dothideomycetes*, six species, type: *T. boninensis* Asah., asexual morph unknown, lichenized, terrestrial, tropical, new synonym *Musaespora* Aptroot & Sipman, see Kashiwadani et al. (2009; taxonomy), Nelsen et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Trypethelium Spreng. [nom. cons.] 1804 (= *Bathelium* Ach. 1803; = *Holstiella* Henn. 1895; = *Leightonia* Trevis. 1861; = *Phyllothelium* Trevis. 1861; = *Porophora* Zenker 1827; = *Trypetheliomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, 16 species, type: *T. eluteriae* Spreng., asexual morph unknown, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Aptroot and Lücking (2016; taxonomy, monograph), Lücking et al. (2017a; classification); sequences are available.

Tryssglobulus B. Sutton & Pascoe 1987, *Ascomycota* genera *incertae sedis*, one species, type: *T. aspergilloides* B. Sutton & Pascoe, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tubakia B. Sutton 1973 (= *Actinopelte* Sacc. 1913 *fide* Species Fungorum 2017), *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, eight species, type: *T. japonica*

(Sacc.) B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; treated as coelomycetous), Yun and Rossman (2011; new species), Harrington et al. (2012; new species), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Braun et al. (2014a; new species), cultures and sequences are available but lacking for the type.

Tubakiella (Tubaki) Sakay., K.L. Pang & E.B.G. Jones 2011, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. galerita* (Tubaki) Sakay., K.L. Pang & E.B.G. Jones, asexual morph unknown, saprobes, marine, France, Denmark, Germany, Japan, Taiwan, USA, Yugoslavia, see Sakayaroj et al. (2011a; morphology, phylogeny), Jones et al. (2015; outline), Maharachchikumbura et al. (2015, b; outline, phylogeny), holotype and ex-type of the type: BCC33500, PP5577.

Tuber P. Micheli ex F.H. Wigg. 1780 (= ?*Loculotuber* Trappe, Parladé & I.F. Alvarez 1993 *fide* Jaklitsch et al. 2016a; see Species Fungorum 2017 for additional synonyms), *Tuberaceae*, *Pezizales*, *Pezizomycetes*, 135 species, type: *T. aestivum* Vittad., asexual morph unknown, saprobes, saprobes, hypogeous, terrestrial, worldwide, see Bonito et al. (2010a, b; new species), Culleré et al. (2010; aromatic compounds), Lumbsch and Huhndorf (2010; outline), Benucci et al. (2011; ectomycorrhizal), Fan et al. (2013; new species), Kirk et al. (2013; genus accepted), Li et al. (2014a; new species, China), Su et al. (2014; new species), Guevara-Guerrero et al. (2015; new species), cultures and sequences are available.

Tuberculispora Deighton & Piroz. 1972, *Ascomycota* genera *incertae sedis*, one species, type: *T. jamaicensis* Deighton & Piroz., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tubeufia Penz. & Sacc. 1898 (= *Linobolus* Syd. & P. Syd. 1917 *fide* Species Fungorum 2017), *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, 29 species, type: *T. javanica* Penz. & Sacc., saprobes on decaying wood or sheaths of bamboo, widespread, asexual morph hyphomycetous, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Boonmee et al. (2014b; taxonomy, phylogeny), Wijayawardene et al. (2014c, 2017; outline), Dai et al. (2017, new species, phylogeny), Doilom et al. (2017, new species, phylogeny), Lu et al. (2017a, new species, phylogeny), Luo et al. (2017, phylogeny, new species), cultures and sequences are available, ex-type strains of type: MFLUCC12-0545; epitype of type: MFLU13-0371.

Tubolachnum Velen. 1934, *Lachnaceae*, *Helotiales*, *Leotiomycetes*, two species, type: need typification, asexual morph unknown, saprobes, terrestrial, former Czechoslovakia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tulipispora Révay & J. Gönczöl 2009, *Ascomycota* genera *incertae sedis*, one species, type: *T. ingoldii* Révay & J. Gönczöl, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: BP 99766, cultures and sequences are unavailable.

Tumidispora Hongsanan & K.D. Hyde 2015, *Microthyriaceae*, *Microthyriales*, *Dothideomycetes*, one species, type: *T. shoreae* Hongsanan & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Thailand, see Ariyawansa et al. (2015a; taxonomy, phylogeny), Hongsanan et al. (2016c; evolution), holotype and ex-type of the type: MFLU 15-1391, MFLUCC 12-0409.

Tumularia Descals & Marvanová 1987, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *T. tuberculata* (J. Gönczöl) Descals & Marvanová, hyphomycetous, sexual morph unknown, saprobes, aquatic, Europe, North and South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; morphology, phylogeny), Hyde et al. (2013; accepted as a genus in *Lophiostomataceae*), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Tunicago B. Sutton & Pollack 1977, *Ascomycota* genera *incertae sedis*, two species, type: *T. uniolae* B. Sutton & Pollack, coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, Australia, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tunicatispora K.D. Hyde 1990, *Halosphaeriaceae*, *Microascales*, *Sordariomycetes*, one species, type: *T. australiensis* K.D. Hyde, saprobes, marine, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Tunstallia Agnihothr. 1961, *Sordariomycetes* genera *incertae sedis*, one species, type: *T. aculeata* (Petch) Agnihothr., asexual morph unknown, saprobes, pathogens, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Turgidosculum Kohlm. & E. Kohlm. 1972, *Ascomycota* genera *incertae sedis*, two species, type: *T. ulvae* (M. Reed)

Kohlm. & E. Kohlm., asexual morph unknown, symbiotic, marine, worldwide, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Turturconchata J.L. Chen, T.L. Huang & Tzean 1999, *Ascomycota* genera *incertae sedis*, two species, type: *T. reticulata* J.L. Chen, T.L. Huang & Tzean, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Tylophorella Vain. 1890 (= *Tylophorellomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *T. polyspora* Vain., lichenized, terrestrial, Bolivia, New guinea, see Lumbsch et al. (2009b; molecular), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), McCarthy (2014; new record), Lücking et al. (2017a; classification), sequences are unavailable.

Tylophoron Nyl. ex Stizenb. 1862 (= *Ditylis* Clem. 1909; = *Sporodochiolichen* Aptroot & Sipman 2011 *fide* Diederich et al. 2013; Species Fungorum 2017), *Arthoniaceae*, *Arthoniales*, *Lecanoromycetes*, eight species, type: *T. protrudens* Nyl., lichenized, terrestrial, mainly tropical, see Lumbsch et al. (2009b; molecular), Lumbsch and Huhndorf (2010; outline), Aptroot et al. (2010; biodiversity), Ertz et al. (2011; molecular), Reddy et al. (2011; new record), Sethy et al. (2012; new record), Kirk et al. (2013; genus accepted), Lendemer et al. (2013; new species), Lendemer and Harris (2014; taxonomy), Pérez-Pérez et al. (2015; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Tylothallia P. James & H. Kilias 1981, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, three species, type: *T. biformigera* (Leight.) P. James & H. Kilias, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Elix and Kantvilas (2013; new records), Kirk et al. (2013; genus accepted), Øvstedal and Gremmen (2014; new combination), Lücking et al. (2017a; classification), sequences are available.

Tympanis Tode 1790 (= *Sirodothis* Clem. 1909; *Pleurophomella* Höhn 1914 *fide* Johnston et al. 2014b), *Tympanidaceae*, *Phacidiales*, *Leotiomycetes*, 27 species, type: *T. saligna* Tode, asexual morphs formerly known in *Sirodothis* and *Pleurophomella*, weak parasite of gymno- and angiosperm trees commonly associated with cankers, worldwide, common in temperate areas, Kirk et al. (2013; genus accepted), Quijada et al. (2015; phylogeny), cultures and sequences are available but lacking for the type.

Tympanopsis Starbäck 1894, *Scortechiniaceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *T. euomphala* (Berk. & M.A. Curtis) Starbäck, asexual morph unknown, saprobes, cosmopolitan, see Mugambi and Huhndorf (2010; phylogeny), Vasilyeva et al. (2012; new species), Maharachchikumbura et al. (2015b, 2016b; outline), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Tympanosporium W. Gams 1974, *Ascomycota* genera *incertae sedis*, one species, type: *T. parasiticum* W. Gams, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Typhulochaeta S. Ito & Hara 1915, *Erysiphaceae*, *Erysiphales*, *Leotiomycetes*, four species, type: *T. japonica* S. Ito & Hara, biotrophic, obligate plant pathogens, terrestrial, Asia, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are available.

Tyrannicordyceps Kepler & Spatafora 2012, *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, five species, type: *T. fratricida* (Tanda & Kobayasi) Kepler & Spatafora, asexual morph unknown, saprobes, terrestrial, cosmopolitan, see Kepler et al. (2012b; taxonomy), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Tyrannosorus Unter. & Malloch 1995, *Venturiaceae*, *Venturiales*, *Dothideomycetes*, one species, type: *T. pinicola* (Petrini & P.J. Fisher) Unter. & Malloch, asexual morph unknown, saprobes, terrestrial, Canada, Pakistan, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideomycetes* genera *incertae sedis*), Zhang et al. (2011d; accepted as in *Venturiaceae*), Hyde et al. (2013; accepted as in *Venturiaceae*, phylogeny), Wijayawardene et al. (2014c; outline), cultures available for the type: AFTOL-ID 1235.

Uberispora Piroz. & Hodges 1973, *Ascomycota* genera *incertae sedis*, four species, type: *U. simplex* (Ichinoe) Piroz. & Hodges, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, Asia, Caribbean, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Jian et al. (2014; new species), Ma et al. (2014; new species, China), cultures and sequences are unavailable.

Ubrizsya Negru 1965, *Ascomycota* genera *incertae sedis*, one species, type: *U. oxycocci* Negru & R. Sandor, coelomycetous, sexual morph unknown, saprobes, terrestrial, Rumania, see Wijayawardene et al.

(2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Uleodothis Theiss. & Syd. 1915 (= *Didothis* Clem. 1931 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, four species, type: *U. balansiana* (Sacc., Roum. & Berl.) Theiss. & Syd., saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Uleomyces Henn. 1895 (= *Dictyomollisia* Rehm 1909; = *Hyalocurreya* Theiss. & Syd. 1915; = *Kusanoa* Henn. 1900; = *Kusanoopsis* F. Stevens & Weedon 1923; = *Micromyriangium* Petr. 1929; = *Myriangina* (Henn.) Höhn. 1909; = *Myrianginella* F. Stevens & Weedon 1923; = *Myriangium* sect. *Myriangina* Henn. 1902 *fide* Species Fungorum 2017), *Cookellaceae*, *Myriangiales*, *Dothideomycetes* families *incertae sedis*, four species, type: *U. parasiticus* Henn., asexual morph unknown, on rusts and ascomycetes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Cookellaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Uleoporthe Petr. 1941, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *U. orbiculata* (Syd. & P. Syd.) Petr., asexual morphs unknown, saprobes, terrestrial, America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Senanayake et al. (2017, new species, placement), cultures and sequences are unavailable.

Uleothyrium Petr. 1929, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, two species, type: *U. amazonicum* Petr., asexual morph coelomycetous (= septothyrella-like, *fide* Hofmann 2009), epiphytes, terrestrial, worldwide, see Hofmann (2009; review), Lumbsch and Huhndorf (2010; outline), Wu et al. (2011; taxonomy), Hongsanan et al. (2014c; keys), Wijayawardene et al. (2014c; outline), placement in *Asterinaceae* supported by morphology, cultures and sequences are unavailable, holotype of type: W 10746.

Ulocoryphus Michaelides, L. Hunter & W.B. Kendr. 1982, *Ascomycota* genera *incertae sedis*, one species, type: *U. mastigophorus* Michaelides, L. Hunter & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Ulospora D. Hawksw., Malloch & Sivan. 1979, *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *U. bilgramii* (D. Hawksw., C. Booth & Morgan-Jones) D. Hawksw., Malloch & Sivan., marine sediments and plant material, Asia, terrestrial and marine, see Zhang et al. (2008b; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures available, holotype of type: K(M)-IMI 12081.

Ulurua Trappe, Claridge & Kovács 2010, *Pezizaceae*, *Pezizales*, *Pezizomycetes*, one species, type: *U. nonparaphysata* Trappe & Claridge, asexual morph unknown, hypogeous, terrestrial, Northern Territory, see Trappe et al. (2010b; taxonomy, phylogeny), isotype of the type: OSC 131126, sequences are available.

Umbellidion B. Sutton & Hodges 1975, *Ascomycota* genera *incertae sedis*, one species, type: *U. radulans* B. Sutton & Hodges, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Umbilicaria Hoffm [nom. cons.] 1789 (see Species Fungorum 2017 for synonyms), *Umbilicariaceae*, *Umbilicariales*, *Lecanoromycetes*, 70 species, type: *U. exasperata* Hoffm., asexual morph unknown, lichenized, terrestrial, worldwide, see Hájek et al. (2009; physiological exp.), Hestmark (2009, 2010, 2014a, b, 2016; taxonomy, new records), Krzewicka and Wilk (2009; new species), Krzewicka et al. (2009; taxonomy), Lee et al. (2009a; bioactivity study), Luo et al. (2009c; antioxidant study), Ranković et al. (2009; bioactivity study), Seo et al. (2009a; bioactivity study), Hestmark (2010; taxonomy), Hestmark et al. (2010, 2014a, b; phylogeny), Kim et al. (2010; bioactivity study), Krzewicka (2010; combination), Lumbsch and Huhndorf (2010; outline), Manojlović et al. (2011; antimicrobial study), Harańczyk et al. (2012; experimental study), Jupa et al. (2012; physiology), Kosanić et al. (2012; bioactivity study), McCune and Curtis (2012; taxonomy), Bendiksby and Timdal 2013, Buçukoglu et al. (2013; antioxidant study), Singh and Ravindra (2013; environmental study), Kirk et al. (2013; genus accepted), Park et al. (2013; mutagenic study), Hestmark (2014a, b; taxonomy), McCune et al. (2014; new species), Tibell (2014; taxonomy), Wang et al. (2014d; antithrombotic study), Cao et al. (2015; molecular), Du et al. (2015; bioactivity study), Bogdanović et al. (2016; floristic), Davydov and Ohmura (2016; taxonomy), Hestmark (2016; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Umbilithecium Etayo 2002, *Lecanoromycetes* genera *incertae sedis*, one species, type: *U. pseudocyphellariae* Etayo, asexual morph unknown, parasymbiont on macrolichens of *Pseudocyphellaria*, terrestrial, South America, see Etayo and Sancho (2008; morphology, distinction of similar lichenicolous genera), needs

revision, holotype of the type: MAF Etayo 23090, cultures and sequences are unavailable.

Umthunziomyces Crous & M.J. Wingf. 2016, *Planistromellaceae*, *Botryosphaeriales*, *Dothideomycetes*, one species, type: *U. hagahagensis* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Crous et al. (2016a; taxonomy, phylogeny), holotype and ex-type of the type: CBS H-22873, CPC 29917.

Umushamyces Etayo 2002, *Scoliciosporaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *U. kuturnum* Etayo, asexual morph unknown, parasymbiont on *Coccotrema*, terrestrial, South America, see Etayo and Sancho (2008; morphology, distinction of similar lichenicolous genera), need revision, holotype of the type: MAF Etayo 22460, cultures and sequences are unavailable.

Uncinocarpus Sigler & G.F. Orr 1976 (= *Brunneospora* Guarro & Punsola 1987 *fide* Species Fungorum 2017), *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, three species, type: *U. reesii* Sigler & G.F. Orr, asexual morph unknown, saprobes, terrestrial, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are available for the type (unpublished).

Uncispora R.C. Sinclair & Morgan-Jones 1979, *Chaetothyriales* genera *incertae sedis*, *Eurotiomycetes*, three species, type: *U. harroldiae* R.C. Sinclair & Morgan-Jones, hyphomycetous, sexual morph unknown, saprobes, terrestrial, China, North America, see Seifert et al. (2011; morphology), Yang et al. (2011a; new species, China, DNA), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Li et al. (2015a; new species; DNA), cultures and sequences are available but lacking for the type, generic placement is based on no-type.

Underwoodia Peck 1890 (= *Geomorium* Speg. 1922 *fide* Species Fungorum 2017), ?*Helvellaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *U. columnaris* Peck, asexual morph unknown, saprobes, from soil, terrestrial, worldwide, see Bonito et al. (2013; DNA, phylogeny, stated that the genus is polyphyletic), Kirk et al. (2013; genus accepted), sequences are available for the type: U42658 (SSU).

Unguicularia Höhn. 1905 (= *Catinella* Kirschst. 1924; = *Chytrella* Kirschst. 1941; = *Mycopandora* Velen. 1947; = *Phalothrix* Clem. 1909 *fide* Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *U. unguiculata* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available (unpublished).

Unguiculariella K.S. Thind & R. Sharma 1990, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *U. bhutanica* K.S. Thind & R. Sharma, asexual morph unknown, saprobes, terrestrial, Bhutan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Unguiculariopsis Rehm 1909 (= *Encoeliella* Höhn. 1910; = *Deltosperma* W.Y. Zhuang 1988; = *Mollisia* subgen. *Mollisiella* W. Phillips 1887; *Mollisiella* (W. Phillips) Massee 1895 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Cordieritidaceae*, *Helotiales*, *Leotiomycetes*, 25 species, type: *U. ilicincola* (Berk. & Broome) Rehm, asexual morph formerly known in *Deltosperma*, fungicolous and lichenicolous, terrestrial, worldwide, see Etayo and Sancho (2008; new species), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Helotiaceae*), Brackel (2011a; new species), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), Pärtel et al. (2017; DNA, phylogeny), Wijayawardene et al. (2017; outline, taxonomy), cultures and sequences are available but lacking for the type.

Unguiculella Höhn. 1906 (= *Globulina* Velen. 1934 *fide* Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, 17 species, type: *U. falcipila* Höhn., asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Uniseta Ciccar. 1948, *Ascomycota* genera *incertae sedis*, one species, type: *U. flagellifera* (Ellis & Everh.) Ciccar., coelomycetous, sexual morph unknown, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Unisetosphaeria Pinnoi, E.B.G. Jones, McKenzie & K.D. Hyde 2003, *Trichosphaeriaceae*, *Trichosphaeriales*, *Sordariomycetes*, one species, type: *S. styracum* Speg., asexual morph unknown, saprobes, terrestrial, Thailand, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Urceolella Boud. 1885 (= *Pilatia* Velen. 1934; = *Urceolella* subgen. *Urceolella* Boud. 1885 *fide* Species Fungorum 2017), *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, 24 species, type: *U. crispula* (P. Karst.) Boud., asexual morph unknown, saprobes, terrestrial, worldwide, see Baral et al. (2009; new species), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Han et al. (2014; DNA, phylogeny), sequences are available for voucher TNS-F18014 of the type.

Uredinophila Rossman 1987, *Dothideomycetes* genera *incertae sedis*, two species, type: *U. tropicalis* (Speg.) Rossman, asexual morph unknown, parasitic on *Pucciniales* on leaves of *Dryopteris tetragona*,

Venezuela, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Urnula Fr. 1849, *Sarcosomataceae*, *Pezizales*, *Pezizomycetes*, ten species, type: *U. craterium* (Schwein.) Fr., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Pfister et al. (2008; phylogeny), Lumbsch and Huhndorf (2010; outline), Carbone et al. (2013; new species, DNA, phylogeny), Kirk et al. (2013; genus accepted), Wang and Huang (2015; new species, DNA, phylogeny), sequences are available for voucher DHP 04-511 (FH) of the type.

Urohendersonia Speg. 1902 (= *Uroconis* Clem. 1902 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, five species, type: *U. platensis* Speg., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, South America, India, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Urohendersoniella Petr. 1955, *Ascomycota* genera *incertae sedis*, one species, type: *U. mastigospora* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Australia, see Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Uropolystigma Maubl. 1920, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *U. atrotestaceum* Maubl., in living leaves, Brazil, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Urosporella G.F. Atk. 1897 (= *Fabreola* Kuntze 1891; = *Sauvageautia* Har. 1892; = *Urospora* Fabre 1879 [1878] *fide* Species Fungorum 2017), *Sordariomycetes* genera *incertae sedis*, two species, type: *U. americana* G.F. Atk., cosmopolitan, Lumbsch and Huhndorf (2010; outline, treated as *Amphisphaeriaceae*), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Urosporellopsis W.H. Hsieh, Chi Y. Chen & Sivan. 1994, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, one species, type: *U. taiwanensis* W.H. Hsieh, Chi Y. Chen & Sivan., asexual morph unknown, saprobes, Taiwan, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype IMI 354629, cultures and sequences are unavailable.

Ursicollum Gryzenh. & M.J. Wingf. 2006, *Cryphonectriaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *U. fallax* Gryzenh. & M.J. Wingf., coelomycetous, sexual morph unknown, pathogens, saprobes, terrestrial, USA, see Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), holotype and ex-type cultures of type: PREM 58840, CMW 18119 = CBS 118663.

Urupe Viégas 1944, *Sordariomycetes* genera *incertae sedis*, one species, type: *U. guaduae* Viégas, asexual morph unknown, saprobes, terrestrial, Central America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae* and placed in *Sordariomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Usnea Dill. ex Adans. 1763 (= *Alectoria* Link 1833; = *Eumitria* Stirt. 1881; = *Neuropogon* Nees & Flot. 1835 [1834]; = *Usneomyces* E.A. Thomas ex Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, c. 350 species, type: *U. florida* (L.) Weber ex Wigg., asexual morph unknown, lichenized, terrestrial, worldwide, see Verma et al. (2008; antioxidant and hepatoprotective activity), Lumbsch and Huhndorf (2010; outline), Çobanoğlu (2011, new records), Kelly et al. (2011; DNA barcoding), Li et al. (2011, Kirk et al. (2013; accepted as a valid genus), Truong et al. (2013; molecular, species delimitation), Ohmura (2014; New to Asia), Shukla et al. (2014b; taxonomy, India), Çobanoğlu et al. (2016; antimicrobial activity), Lücking et al. (2017a; classification), Mark et al. (2016; circumscribed species, phylogeny), sequences are available.

Usnochroma Søchting, Arup & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *U. carphineum* (Fr.) Søchting, Arup & Frödén, asexual morph unknown, lichenized, terrestrial, France, South Africa, see Arup et al. (2013; taxonomy, phylogeny), Gaya et al. (2015; DNA), Lücking et al. (2017a; classification), sequences are available. cultures available for the type: Ccar201 (*fide* Gaya et al. 2015).

Ustilaginoidea Bref. 1895 (= *Dubiomyces* Lloyd 1895; = *Villosiclava* E. Tanaka & C. Tanaka 2009 *fide* Rossman et al. 2016a), *Clavicipitaceae*, *Hypocreales*, *Sordariomycetes*, six species, type: *U. oryzae* (Pat.) Bref., hyphomycetous, sexual morph unknown, saprobes, terrestrial, subtropical, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Utriascus Réblová 2003, *Sordariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *U. gabretae* Réblová, asexual morph unknown, lichenicolous, terrestrial, Czech Republic, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), cultures and sequences are unavailable.

Uvarispora Goos & Piroz. 1975, *Ascomycota* genera *incertae sedis*, one species, type: *U. lignicola* Goos & Piroz., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Central America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Uwebraunia Crous & M.J. Wingf. 1996, *Dissoconiaceae*, *Capnodiales*, *Dothideomycetes*, seven species, type: *U. juvenis* Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, worldwide, see Seifert et al. (2011; morphology), Li et al. (2012a; phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Uwemyces Hern.-Restr., G.A. Sarria & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *U. elaeidis* Hern.-Restr., G.A. Sarria & Crous, hyphomycetous, associated with leaf spots, terrestrial, Australia, see Crous et al. (2016b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), culture and sequences are available.

Vagicola Chethana & K.D. Hyde 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *V. vagans* (Niessl) O. Erikss., Chethana & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, worldwide, see Ariyawansa et al. (2015a; taxonomy), Jayasiri et al. (2015; new species), Thambugala et al. (2017b, new species, phylogeny), holotype of type species UPS:BOT:F–169873, cultures and sequences are available for the type species.

Vaginatispora K.D. Hyde 1995, *Lophiostomataceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *V. aquatica* K.D. Hyde, asexual morph unknown, saprobic, fresh water or terrestrial, Hong Kong, Japan, Thailand, all species have sequence data, see Kirk et al. (2013; genus accepted), Thambugala et al. (2015b; morphology, phylogeny, accepted as a genus in *Lophiostomataceae*), Wanasinghe et al. (2016b; morphology, phylogeny), Tibpromma et al. (2017b; new data), ex-type strains of type: MFLUCC 11–0083 = IFRDCC 2462; holotype MFLU 11–1115.

Vagnia D. Hawksw. & Miadl. 1997, *Ascomycota* genera *incertae sedis*, one species, type: *V. cirriformia* D. Hawksw. & Miadl., lichenicolous, Europe, terrestrial, see Kirk et al. (2013; genus accepted), culture and sequences are unavailable, holotype of type: K(M)-IMI 371358.

Vahliella P.M. Jørg. 2008, *Vahliellaceae*, *Peltigerales*, *Lecanoromycetes*, eight species, type: *V. leucophaea* (Vahl) P.M. Jørg., asexual morph unknown, lichenized, terrestrial, Europe, see Jørgensen (2008; taxonomy) Lumbsch and Huhndorf (2010; outline), Wedin et al. (2011; new species), Wedin et al. (2011; phylogeny), Perez-Vargas et al. (2014; new species), Lücking et al. (2017a; classification), cultures and sequences are available, sequences are available.

Vainionora Kalb 1991, *Lecanoraceae*, *Lecanorales*, *Lecanoromycetes*, nine species, type: *V. pallidostraminea* (Vain.) Kalb, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Papong and Lumbsch (2011; taxonomy), Menezes et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Papong et al. (2013; molecular), Lücking et al. (2017a; classification), sequences are unavailable.

Valdensia Peyronel 1923 (= *Asterobolus* Redhead & P.W. Perrin 1972; = *Valdensinia* Peyronel 1953 *fide* Johnston et al. 2014b), *Sclerotiniaceae*, *Helotiales*, *Leotiomycetes*, three speciefs, type: *V. heterodoxa* Peyronel, asexual morph formerly known in *Valdensinia*, saprobes, terrestrial, Europe, Japan, see Lumbsch and Huhndorf (2010; outline), Nekoduka et al. (2012; pathogens, Japan), Kirk et al. (2013; genus accepted), cultures available for the type: HBI0401.

Valetoniella Höhn. 1909, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *V. crucipila* Höhn., asexual morph unknown, saprobes, or fungicolous, terrestrial, tropics, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Valetoniellopsis Samuels & M.E. Barr 1998, *Niessliaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *V. laxa* Samuels & M.E. Barr, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 191.97.

Valsalnicola D.M. Walker & Rossman 2012, *Diaporthales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *V. oxystoma* (Rehm) D. Walker & Rossman, asexual morph dimorphic, pathogens, saprobes, terrestrial, Europe, America, see Crous et al. (2012c; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), lectotype of the type: BPI 884138, cultures available for the type: AR4833.

Valsaria Ces. & De Not. 1863, *Valsariaceae*, *Valsariales*, *Dothideomycetes*, 140 epithets, type: *V. insitiva* (Tode) Ces. & De Not. 1863, asexual morph coelomycetous, saprobes, terrestrial, widely distributed, see Lumbsch and Huhndorf (2010; outline), Jaklitsch et al. (2015; sexual and asexual morphs, morphology, phylogeny), epitype of the type: WU 33462,

Vamsapriya Gawas & Bhat 2006, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, four species, type: *V. indica* Gawas & Bhat, hyphomycetous, saprobes, terrestrial, India,

Thailand, see Pratibha and Bhat (2008, morphology), Dai et al. (2014b; asexual morph, morphology, phylogeny, 2017; sexual morph, morphology, phylogeny), ex-epitype culture of type: MFLUCC 12–0544 = ICMP 20734.

Vanakripa Bhat, W.B. Kendr. & Nag Raj 1993, *Ascomycota* genera *incertae sedis*, nine species, type: *V. gigaspora* Bhat, W.B. Kendr. & Nag Raj, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Brazil, see Hu et al. (2010a; new species, China), Mel'nik (2011; new species, Vietnam), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Leão-Ferreira et al. (2013; new species; Brazil), cultures and sequences are unavailable.

Vanbeverwijkia Agnihothr. 1961, *Ascomycota* genera *incertae sedis*, one species, type: *V. spirospora* Agnihothr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Assam, USA, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vanderwaltozyma Kurtzman 2003, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *V. polyspora* (van der Walt) Kurtzman, asexual reproduction is by multilateral budding, saprophytic, soil, cactus fruit, tanning fluids, worldwide, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Vanderystiella Henn. 1908 (= *Deightonia* Petr. 1947 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *V. leopoldvilleana* Henn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vanterpoolia A. Funk 1982, *Ascomycota* genera *incertae sedis*, one species, type: *V. tsugae* A. Funk, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vargamyces Tóth 1980, *Amniculicolaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *V. aquaticus* (Dudka) Tóth, hyphomycetous, sexual morph unknown, saprobes, aquatic, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny, designate lectotype and epitype), sequences are available.

Varicellaria Nyl. 1858 (= *Varicellariomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Ochrolechiaceae*, *Pertusariales*, *Lecanoromycetes*, seven species, type: *V. microsticta* Nyl., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Schmitt et al. (2012; circumscription), Kirk et al. (2013; genus accepted), Ren and Li (2013; new record), Miądlikowska et al. (2014a; DNA), Lücking et al. (2017a; classification), cultures and sequences are unavailable for type.

Varicosporium W. Kegel 1906, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, eleven species, type: *V. elodeae* W. Kegel, hyphomycetous, sexual morph unknown, in soil, saprobes, terrestrial, aquatic, worldwide, see Campbell et al. (2009b; phylogeny, polyphyletic), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 541.92.

Variocladium Descals & Marvanová 1998, *Mollisiaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *V. rangiferinum* (Descals) Descals & Marvanová, hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, temperate, see Campbell et al. (2009b; phylogeny), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 508.71 (unpublished).

Variospora Arup, Søchting & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, twelve species, type: *V. velana* (A. Massal.) Arup, Søchting & Frödén, asexual morph unknown, lichenized, terrestrial, Europe, North Africa, see Arup et al. (2013; taxonomy, phylogeny), Kondratyuk et al. (2014; DNA), Gaya et al. (2015; DNA, phylogeny), Lücking et al. (2017a; classification); cultures available for the type: Cavel192, sequences are available.

Vasudevella Chona, Munjal & Bajaj 1957, *Ascomycota* genera *incertae sedis*, one species, type: *V. sporoboli* Chona, Munjal & Bajaj, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Velloziomyces Armando, Z.M. Chaves & Dianese 2015, *Ascomycota* genera *incertae sedis*, one species, type: *V. ramosiconidialis* Armando, Z.M. Chaves & Dianese, hyphomycetous, sexual morph unknown, on living leaves, terrestrial, Brazil, see de Souza Armando et al. (2015; morphology), holotype of the type: UBMC 8849, cultures and sequences are unavailable, compare with *Dictyodochium*, *Minimidochium* and *Iyengarina*.

Velutaria Fuckel 1870 (= *Schweinitzia* Massee 1895 *fide* Species Fungorum 2017), *Pezizellaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *V. griseovitellina* (Fuckel) Fuckel, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al.

(2016a; classification), cultures and sequences are unavailable.

Velutarina Korf 1971 (= *Velutarina* Korf 1953 *fide* Species Fungorum 2017), *Cenangiaceae*, *Helotiales*, *Leotiomycetes*, three species, type: *V. rufo-olivacea* (Alb. & Schwein.) Korf, asexual morph unknown, saprobes, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Perić et al. (2015; new species), Jaklitsch et al. (2016a; classification), Pärtel et al. (2017; DNA, phylogeny), cultures and sequences are available.

Velutipila D. Hawksw. 1987, *Ascomycota* genera *incertae sedis*, one species, type: *V. poeltii* D. Hawksw., algicolous, terrestrial, Europe, hyphomycetous, sexual morph unknown, see Seifert et al. (2011; genus accepted), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: K(M)-IMI 309488.

Ventrographium H.P. Upadhyay, Cavalc. & A.A. Silva 1986, *Ascomycota* genera *incertae sedis*, one species, type: *V. nervicola* H.P. Upadhyay, Cavalc. & A.A. Silva, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Venturia Sacc. 1882 (= *Fusicladium* Bonord. 1851; = *Pollaccia* E. Bald. & Cif. 1937; = *Pseudocladosporium* U. Braun 1998 *fide* Rossman et al. 2015b; see Species Fungorum 2017 for additional synonyms), *Venturiaceae*, *Venturiales*, *Dothideomycetes*, c. 60 species, type: *V. inaequalis* (Cooke) G. Winter, asexual morph hyphomycetous, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Zhang et al. (2011d; phylogeny), Hyde et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Rossman et al. (2015b; nomenclature), Shen et al. (2016; new species), cultures and sequences are available.

Venturiocistella Raitv. 1979, *Hyaloscyphaceae*, *Helotiales*, *Leotiomycetes*, seven species, type: *V. venturioides* (Sacc. & Roum.) Raitv., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Hosoya et al. (2011; taxonomy, DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Venustocephala Matsush. 1995, *Ascomycota* genera *incertae sedis*, two species, type: *V. aequatorialis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Neotropics, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Venustosynnema R.F. Castañeda & W.B. Kendr. 1990, *Ascomycota* genera *incertae sedis*, three species, type: *V. ciliatum* (R.F. Castañeda, G.R.W. Arnold & A.G. Guerra) R.F. Castañeda & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Caribbean, Taiwan, see Castañeda-Ruiz et al. (2009b; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Kirschner and Liu (2014; new species, Taiwan), cultures and sequences are unavailable.

Veracruzomyces Mercado, Guarro, Heredia & J. Mena 2002, *Ascomycota* genera *incertae sedis*, one species, type: *V. obclavatus* Mercado, Guarro, Heredia & J. Mena, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Veramycella G. Delgado 2009, *Ascomycota* genera *incertae sedis*, one species, type: *V. bispora* G. Delgado, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Veramyces Matsush. 1993, *Ascomycota* genera *incertae sedis*, one species, type: *V. manuensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Verdipulvinus A.W. Ramaley 1999, *Ascomycota* genera *incertae sedis*, one species, type: *V. nolinae* A.W. Ramaley, hyphomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vermiconia Egidi & Onofri 2014, *Extremaceae*, *Capnodiales*, *Dothideomycetes*, four species, type: *V. foris* Egidi & Onofri, hyphomycetous, sexual morph unknown, rock-inhabiting fungus, Spain, Italy, see Egidi et al. (2014; taxonomy), Quaedvlieg et al. (2014; phylogeny), Isola et al. (2016; new species, phylogeny), Wijayawardene et al. (2017; outline), type: CBS 136106 = CCFEE 5459, cultures and sequences available.

Vermiculariopsiella Bender 1932 (= *Oramasia* Urries 1956 [1955]; = *Singera* Bat. & J.L. Bezerra 1960; = *Vermiculariopsis* Höhn. 1918 *fide* Species Fungorum 2017), *Vermiculariopsiellaceae*, *Vermiculariopsiellales*, *Sordariomycetes*, 19 species, type: *V. immersa* (Desm.) Bender, hyphomycetous, sexual morph unknown, saprobes, worldwide, see Dhargalkar and Bhat (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al.

(2012, 2017; outline), Hernández-Restrepo et al. (2012a; new species), Kirk et al. (2013; genus accepted), Dubey and Moonambeth (2014b; new species), Crous et al. (2016b; new species, phylogeny), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), cultures and sequence available but lack for the type, generic placement is based on non-type.

Vermispora Deighton & Piroz. 1972, *Orbiliaceae*, *Orbiliales*, *Orbiliomycetes*, seven species, type: *V. grandispora* Deighton & Piroz., hyphomycetous, sexual morph unknown, fungicolous, nematode cysts, in soil, terrestrial, Africa, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available but lacking for the type.

Veronaea Cif. & Montemart. 1957 (= *Sympodina* Subram. & Lodha 1964 *fide* Species Fungorum 2017), *Herpotrichiellaceae*, *Chaetothyriales*, *Eurotiomycetes*, 21 species, type: *V. botryosa* Cif. & Montemart., hyphomycetous, sexual morph unknown, saprobes fungicolous, on dung, on soil, worldwide, see Soares and Barreto (2008; new species), Chlebicki (2009a; new species), Pan et al. (2009; new species, China), de Hoog et al. (2011; DNA), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 254.57.

Veronaella Subram. & K.R.C. Reddy 1975, *Ascomycota* genera *incertae sedis*, one species, type: *V. indica* Subram. & K.R.C. Reddy, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Veronaeopsis Arzanlou & Crous 2007, *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, one species, type: *V. simplex* (Papendorf) Arzanlou & Crous, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; morphology), Zhang et al. (2011d; accepted as a genus in *Sympoventuriaceae*), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Sympoventuriaceae*), Samerpitak et al. (2014; phylogeny), holotype and ex-type of the type: CBS H-7810, CBS 588.66 = IMI 203547.

Veronaia Benedek 1961, *Eurotiomycetidae* genera *incertae sedis*, *Eurotiomycetes*, two species, type: *V. castellanii* Benedek, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Veronidia Negru 1964, *Ascomycota* genera *incertae sedis*, one species, type: *V. oxycocci* Negru, coelomycetous, sexual morph unknown, saprobes, terrestrial, Rumania, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Verpa Sw. 1815 (= *Monka* Adans. 1763; = *Ptychoverpa* Boud. 1907; = *Relhanum* Gray 1821 *fide* Species Fungorum 2017), *Morchellaceae*, *Pezizales*, *Pezizomycetes*, five species, type: *V. conica* (O.F. Müll.) Sw., asexual morph unknown, saprobes, terrestrial, north temperate, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Osmundson et al. (2013; DNA), cultures available for type: AFTOL-ID 74 (unpublished).

Verrucaria Schrad. [nom. cons.] 1794 (see Species Fungorum 2017 for synonyms), *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, 300 species, type: *V. rupestris* Schrad., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Verrucariella S. Ahmad 1967, *Ascomycota* genera *incertae sedis*, one species, type: *V. capparicola* S. Ahmad, coelomycetous, sexual morph unknown, saprobes, terrestrial, Pakistan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Verrucocladosporium K. Schub., Aptroot & Crous 2007, *Cladosporiaceae*, *Capnodiales*, *Dothideomycetes*, two species, type: *V. dirinae* K. Schub., Aptroot & Crous, hyphomycetous, sexual morph unknown, lichenicolous, terrestrial, temperate, see Braun et al. (2009; new species), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2014c, 2017; outline), Zhurbenko et al. (2015c; new species) holotype and ex-type culture: CBS H-19883, CBS 112794.

Verrucoconiothyrium Crous 2015, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *V. nitidae* (Crous & Denman) Crous, coelomycetous, sexual morph unknown, saprobes, Germany, see Crous et al. (2015c; taxonomy, phylogeny), Wijayawardene et al. (2016b, 2017; outline, phylogeny), holotype of the type species PREM 55346.

Verruconis Samerp., H.J. Choi, Van den Ende, Horré & de Hoog 2013, *Sympoventuriaceae*, *Venturiales*, *Dothideomycetes*, one species, type: *V. gallopava* (W.B. Cooke) Samerpitak & de Hoog, hyphomycetous, sexual morph unknown, saprobes, human pathogen, terrestrial, South Africa, see Giraldo et al. (2014b; phylogeny), Samerpitak et al. (2014, 2016; phylogeny, barcoding), Seyedmousavi et al. (2014; antifungal susceptibility), Wijayawardene et al. (2014c, 2017; outline), Geltner et al. (2015; Necrotizing mycosis), ex-type cultures of the type: CBS 437.64= MUCL 6683=IFM 52605.

Verrucophragmia Crous, M.J. Wingf. & W.B. Kendr. 1994, *Ascomycota* genera *incertae sedis*, one species, type: *V. splendens* Crous, M.J. Wingf. & W.B. Kendr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: PREM 51441, cultures and sequences are unavailable.

Verrucoplaca S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *V. verruculifera* (Vain.) S.Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, M.-H. Jeong, N.N. Yu, A.S. Kondr. & Hur, asexual morph unknown, lichenized, terrestrial, Europe, see Kondratyuk et al. (2014; taxonomy, DNA), Gaya et al. (2015; DNA, phylogeny), cultures and sequences are unavailable.

Verrucostoma Hirooka, Tak. Kobay. & P. Chaverri 2010, *Bionectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *V. freycinetiae* Hirooka, Tak. Kobay. & P. Chaverri, asexual morph acremonium-like, saprobes, terrestrial, tropical, see Hirooka et al. (2010; taxonomy), Crous et al. (2015d; new specie), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: BPI 878948, cultures and sequences are available.

Verruculina Kohlm. & Volkm.-Kohlm. 1990, *Testudinaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *V. enalia* (Kohlm.) Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, marine, Liberia, see Suetrong et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Didymosphaeriaceae*), Hyde et al. (2013; accepted as a genus in *Testudinaceae*), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline, marine), cultures available for the type: BCC 18402.

Verruculopsis Gueidan, Nav.-Ros. & Cl. Roux 2007, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, six species, type: *V. poeltiana* (Clauzade & Cl. Roux) Gueidan, Nav.-Ros. & Cl. Roux, asexual morph unknown, lichenized, lichenicolous, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Krzewicka (2012; new species, Poland), Kukwa and Pérez-Ortega (2010; phylogeny), Lücking et al. (2017a; classification); sequences are available, cultures available for the type: AFTOL-ID 2298.

Versicolorisporium Sat. Hatak., Kaz. Tanaka & Y. Harada 2008, *Occultibambusaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *V. triseptatum* Sat. Hatak., Kaz. Tanaka & Y. Harada, coelomycetous, saprobes, terrestrial, Asia, see Wijayawardene et al. (2012, 2016b, 2017; outline, morphology), Dai et al. (2017; phylogeny, morphology, sexual and asexual morphs), ex-type culture of type: MFLUCC 11–0179.

Vertexicola K.D. Hyde, Ranghoo & S.W. Wong 2000, *Annulatascaceae*, *Annulatascales*, *Sordariomycetidae*, two species, type: *V. caudatus* K.D. Hyde, S.W. Wong & Ranghoo, asexual morph unknown, saprobes, fresh water, terrestrial, Philippines, Hong Kong, Costa Rica, see Lumbsch and Huhndorf (2010; outline), Barbosa et al. (2013a; new species, Costa Rica), Maharachchikumbura et al. (2016b; outline), holotype of the type: HKU (M) 3108, cultures and sequences are available but lacking for the type.

Verticicladus Matsush. 1993, *Ascomycota* genera *incertae sedis*, three species, type: *V. amazonensis* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, aquatic, Africa, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Guo et al. (2015; new species), cultures and sequences are unavailable.

Verticillium Nees 1816 (= *Verticillium* sect. *Verticillium* Nees 1816 [1816-17] *fide* Species Fungorum 2017), *Plectosphaerellaceae*, *Glomerellales*, *Sordariomycetes*, c. 20 species (in strict sense), type: *V. dahliae* Kleb., hyphomycetous, Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for type species ATCC 16535.

Verticimonosporium Matsush. 1971, *Hypocreaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *V. diffractum* Matsush., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, North and South America, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures available for the type: NRRL 26545.

Vesicladiella Crous & M.J. Wingf. 1994, *Ascomycota* genera *incertae sedis*, two species, type: *V. capitata* (B. Sutton) Crous & M.J. Wingf., hyphomycetous, sexual morph unknown, saprobes, Australia, see Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), holotype of type: IMI163277a.

Vesiculohyphomyces Armando, Pereira-Carv. & Dianese 2009, *Ascomycota* genera *incertae sedis*, one species, type: *V. cerradensis* Armando, Pereira-Carv. & Dianese, hyphomycetous, sexual morph unknown, saprobes, terrestrial, South America, see Pereira-Carvalho et al. (2009b; taxonomy), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), holotype of the type: UB (Mycol. Col.) 14595, cultures and sequences are unavailable.

Vestergrenia Rehm 1901 (= *Catacaumella* Theiss. & Syd. 1915; = *Coscinopeltella* Chardón 1930; = *Guignardiella* Sacc. & P. Syd. 1902; = *Haplodothella*

Werderm. 1923; = *Pediascus* Chardón & Toro 1934; = *Whetzelia* Chardón & Toro 1934 *fide* Species Fungorum 2017), *Botryosphaeriaceae*, *Botryosphaeriales*, *Dothideomycetes*, 13 species, type: *V. nervisequia* Rehm, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Dothideaceae*), Kirk et al. (2013; genus accepted), Hyde et al. (2013; accepted as a genus in *Botryosphaeriaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Vestergrenopsis Gyeln. 1940, *Koerberiaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *V. elaeina* (Wahlenb. ex Ach.) Gyeln., asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Spribille and Muggia (2013; new species, DNA, phylogeny), sequences are available for voucher Spribille 24525 (KLGO) of the type, Lücking et al. (2017a; classification), sequences are available.

Vestigium Piroz. & Shoemaker 1972, *Ascomycota* genera *incertae sedis*, two species, type: *V. felicis* Piroz. & Shoemaker, coelomycetous, sexual morph unknown, saprobes, aquatic, cosmopolitan, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Shoemaker et al. (2013; new species), cultures and sequences are available.

Vezdaea Tscherm.-Woess & Poelt 1976 (= *Vezdaea* Poelt & Döbbeler 1975 *fide* Species Fungorum 2017), *Vezdaeaceae*, *Vezdaeales*, *Ascomycota* orders *incertae sedis*, twelve species, type: *V. aestivalis* (Ohlert) Tscherm.-Woess & Poelt, asexual morph unknown, lichenized, saprobes, Europe, see Czarnota and Kukwa (2009; Poland), Lumbsch et al. (2009a; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification) cultures and sequences are available.

Vialaea Sacc. 1896 (= *Boydia* A.L. Sm. 1919 [1918] *fide* Species Fungorum 2017), *Vialaeaceae*, *Amphisphaeriales*, *Sordariomycetes*, three species, type: *V. insculpta* (Fr.) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Senanayake et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures available for the type: AFTOL-ID:1302.

Vibrissea Fr. 1822 (= *Anavirga* B. Sutton 1975; = *Apostemidium* (P. Karst.) P. Karst. 1871; = *Apostemium* P. Karst. 1870 [1871]; = *Leptosporium* Bonord. 1857; = *Ophiogloea* Clem. 1903; = *Peziza* sect. *Apostemidium* P. Karst. 1869 *fide* Johnston et al. 2014b; Species Fungorum 2017), *Vibrisseaceae*, *Helotiales*, *Leotiomycetes*, 34 species, type: *V. truncorum* (Alb. & Schwein.) Fr., asexual morph formerly known in *Anavirga*, saprobes, aquatic or semiaquatic, worldwide, see Grünig et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Hustad and Miller (2011; DNA, phylogeny), Raja et al. (2011a; DNA, phylogeny), Kirk et al. (2013; genus accepted), Johnston et al. (2014b; nomenclature), cultures available for the type: CBS 143.92.

Viegasella Inácio & P.F. Cannon 2003, *Parmulariaceae*, *Dothideomycetes* genera *incertae sedis*, one species, type: *V. pulchella* (Speg.) Inácio & P.F. Cannon, asexual morph unknown, saprobes, terrestrial, Brazil, see Lumbsch and Huhndorf (2010; outline, listed as *Viegasiella*), Hyde et al. (2013; accepted as a genus in *Parmulariaceae*), Wijayawardene et al. (2014c; outline), Tian et al. (2016a; taxonomy), holotype of type: LPS, cultures and sequences are unavailable.

Vigneronia Ertz 2015, *Roccellaceae*, *Arthoniales*, *Arthoniomycetes*, three species, type: *V. spieri* (Aptroot & Sparrius) Ertz & Bungartz, sexual morph with lirelliform ascomata, lichenized, terrestrial, neotropical, see Ertz et al. (2015b, c; morphology, phylogeny), Lücking et al. (2017a, classification), sequences are available, holotype and ex-type of the type: Aptroot 65014 (CDS31595).

Vikalpa D'souza, Boonmee, Bhat & K.D. Hyde 2016, *Dictyosporiaceae*, *Pleosporales*, *Dothideomycetes*, three species, type: *V. australiense* (B. Sutton) D'souza, Boonmee & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, Thailand, China, see Boonmee et al. (2016a; phylogeny), Wijayawardene et al. (2017; outline), holotype: HKAS 83979, cultures and sequences are available.

Villophora Søchting, Arup & Frödén 2013, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, two species, type: *V. isidioclada* (Zahlbr.) Søchting, Frödén & Arup, asexual morph unknown, lichenized, saxicolous or epiphytic, terrestrial, southern hemisphere, see Arup et al. (2013; taxonomy, phylogeny), Kondratyuk et al. (2015c; new species, DNA, phylogeny), Lücking et al. (2017a; classification); sequence available for the type: KC179325 (ITS) (fide Arup et al. 2013).

Violella T. Sprib. 2011, *Tephromelataceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *V. fucata* (Stirt.) T. Sprib., lichenized, see Spribille et al. (2011; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Virgaria Nees 1816 (= *Ascovirgaria* J.D. Rogers & Y.M. Ju 2002 *fide* Réblová et al. 2016c), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, 16 species, type: *V. nigra* (Link) Nees, sexual morph formerly known in *Ascovirgaria*, saprobes, terrestrial, Africa, Australia, Europe, Japan, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Nonaka et al. (2013a; new species, Japan, DNA), Maharachchikumbura et al.

(2015b, 2016b; outline), Réblová et al. (2016c; nomenclature), cultures available for the type: NBRC 9453.

Virgariella S. Hughes 1953, *Ascomycota* genera *incertae sedis*, eleven species, type: *V. globigera* (Sacc. & Ellis) S. Hughes, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, Caribbean, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Virgatospora Finley 1967, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *V. echinofibrosa* Finley, hyphomycetous, sexual morph unknown, saprobes, terrestrial, pantropical, see Seifert et al. (2011; morphology), Lombard et al. (2016; phylogeny), Wijayawardene et al. (2017; outline), culture available for the type: CBS.

Virgella Darker 1967, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, one species, type: *V. robusta* (Tubeuf) Darker, asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Viridiannula Etayo 2002, *Ascomycota* genera *incertae sedis*, one species, type: *V. pertusariae* Etayo, coelomycetous, sexual morph unknown, parasymbiont, terrestrial, Spain, see Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable, needs revision, holotype of the type: hb. Etayo, Etayo 14496.

Viridothelium Lücking, M.P. Nelsen & Aptroot 2016, *Trypetheliaceae*, *Trypetheliales*, *Dothideomycetes*, ten species, type: *V. virens* (Tuck. ex Michener) Lücking, M.P. Nelsen & Aptroot, asexual morph unknown, lichenized fungi, terrestrial, tropical, see Aptroot and Lücking (2016; taxonomy), Lücking et al. (2017a, c; classification), sequences are available.

Vishnumyces Hosag. 2010, *Dothideomycetes* genera *incertae sedis*, one species, type: *V, otonephelii* Hosag. & Harish, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Asterinaceae*), Hosagoudar and Harish (2010; taxonomy, accepted as a genus in *Asterinaceae*), Hyde et al. (2013) and Hongsanan et al. (2014c) did not treat as a genus in *Asterinaceae*, Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Vismaya V.V. Sarma & K.D. Hyde 2001, *Diaporthales* genera *incertae sedis*, one species, type: *V. chaturbeeja* V.V. Sarma & K.D. Hyde, asexual morph unknown, saprobes, terrestrial, Hong Kong, see Lumbsch and Huhndorf (2010; outline, listed as *Vismya*), Maharachchikumbura et al. (2015b, 2016b; outline), lectotype of the type: HKU (M) 12457, cultures and sequences are unavailable.

Vitreostroma P.F. Cannon 1991, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *V. desmodii* (Henn.) P.F. Cannon, in living leaves, montane paleotropics, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Vittalia Gawas & Bhat 2007, *Ascomycota* genera *incertae sedis*, one species, type: *V. indica* Gawas & Bhat, hyphomycetous, sexual morph unknown, saprobes, terrestrial, India, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Vittatispora P. Chaudhary, J. Campb., D. Hawksw. & K.N. Sastry 2006, *Ceratostomataceae*, *Coronophorales*, *Sordariomycetes*, one species, type: *V. coorgii* P. Chaudhary, J. Campb., D. Hawksw. & K.N. Sastry, asexual morph unknown, saprobes, terrestrial, India, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures available for the type: BICC 7817.

Vivantia J.D. Rogers, Y.M. Ju & Cand. 1996, *Graphostromataceae*, *Xylariales*, *Sordariomycetes*, one species, type: *V. guadalupensis* J.D. Rogers, Y.M. Ju & Cand., asexual morph hyphomycetous, terrestrial, saprobes, Guadeloupe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; transferred to *Graphostromataceae*), cultures and sequences are unavailable.

Vizella Sacc. 1883 (= *Entopeltis* Höhn. 1910; = *Haplopyrenula* Müll. Arg. 1883; = *Haplopyrenulomyces* Cif. & Tomas. 1953; = *Haplospora* Räsänen 1943; = *Hypocelis* Petr. 1929; = *Mycerema* Bat., J.L. Bezerra & Cavalc. 1963; = *Phaeaspis* Clem. & Shear 1931; = *Phaeopeltis* Petch 1919; = *Stigmatopeltis* Doidge 1927 *fide* Species Fungorum 2017), *Vizellaceae*, *Dothideomycetes* genera *incertae sedis*, eleven species, type: *V. conferta* (Cooke) Sacc., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Vizellaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Vizellopsis Bat., J.L. Bezerra & T.T. Barros 1969, *Asterinaceae*, *Asterinales*, *Dothideomycetes*, one species, type: *V. grevilleae* Bat., J.L. Bezerra & T.T. Barros, asexual morph unknown, foliar epiphytes, terrestrial, New Caledonia, see Lumbsch and Huhndorf (2010; outline, accepted as *Dothideomycetes* genera incertae sedis), Kirk et al. (2013; genus accepted), Dai et al. (2014a; accepted as

a genus in *Asterinaceae* based on morphology), Hongsanan et al. (2014c; taxonomy, accepted as a genus in *Asterinaceae*), Wijayawardene et al. (2014c; 2017; outline), cultures and sequences are unavailable.

Vladracula P.F. Cannon, Minter & Kamal 1986, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *V. annuliformis* (Syd., P. Syd. & E.J. Butler) P.F. Cannon, Minter & Kamal, asexual morph unknown, saprobes, terrestrial, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vleugelia J. Reid & C. Booth 1969, *Sordariomycetes* genera *incertae sedis*, one species, type: *V. betulina* (Bubák & Vleugel) J. Reid & C. Booth, asexual morph unknown, saprobes, terrestrial, Sweden, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Volkartia Maire 1907, *Protomycetaceae*, *Taphrinales*, *Taphrinomycetes*, one species, type: *V. rhaetica* (Volkart) Maire, asexual reproduction is unknown, plant parasite, parasitic on species of *Asteraceae*, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Volutella Fr. 1832 (= *Chaetodochium* Höhn. 1932; = *Psilonia* Fr. 1825; = *Thysanopyxis* Rabenh. ex Bonord. 1864; = *Volutellonectria* J. Luo & W.Y. Zhuang *fide* Rossman et al. 2016a; Species Fungorum 2017), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, c. 25 species, type: *V. ciliata* (Alb. & Schwein.) Fr., hyphomycetous, sexual morph formerly known in *Volutellonectria*, saprobes, terrestrial, widespread, see Seifert et al. (2011; morphology), Gräfenhan et al. (2011, morphology, phylogeny), Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2016b; outline), Rossman et al. (2016a; nomenclature), cultures available for type: WBS025, YIMPH30011, GJS 85.205, DAOM 226718, CBS 483.61.

Vonarxella Bat., J.L. Bezerra & Peres 1965, *Saccardiaceae*, *Ascomycota* families *incertae sedis*, one species, type: *V. dipterygis* Bat., J.L. Bezerra & Peres, asexual morph unknown, saprobes, Brazil, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vonarxia Bat. 1960, *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, one species, type: *V. anacardii* Bat. & J.L. Bezerra, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Crous et al. (2009a; DNA, phylogeny, treated as hyphomycetous-i.e. with sporodochial conidioma), Seifert et al. (2011; treated as coelomycetous), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Vouauxiella Petr. & Syd. 1927 (= *Alysia* Cavalc. & A.A. Silva 1972 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, five species, type: *V. verrucosa* (Vouaux) Petr. & Syd., coelomycetous, sexual morph unknown, lichenicolous, terrestrial, Europe, South America, see Wijayawardene et al. (2012, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Vrystaatia Quaedvl., W.J. Swart, Verkley & Crous 2013, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *V. aloeicola* Quaedvl., Verkley, W.J. Swart & Crous coelomycetous, sexual morph unknown, pathogenic, terrestrial, South Africa, see Quaedvlieg et al. (2013; morphology, phylogeny), holotype and ex-type strains of the type: CBS H-21313; CBS 135107.

Wadeana Coppins & P. James 1978, *Ascomycota* genera *incertae sedis*, two species, type: *W. dendrographa* (Nyl.) Coppins & P. James, asexual morph unknown, lichenized, terrestrial, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); sequences unavailable.

Wahlenbergiella Gueidan & Thüs 2009, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, three species, type: *W. mucosa* (Wahlenb.) Gueidan & Thüs, asexual morph unknown, lichenized, terrestrial, Europe, see Gueidan et al. (2009, 2011; taxonomy), Lumbsch and Huhndorf (2010; outline), Shivarov and Stoykov (2013; new records, Bulgaria), Higgins et al. (2015; factors in distributing), Lücking et al. (2017a; classification), sequences are available, cultures available for the type: AFTOL-ID 2264.

Waihonghopes Yanna & K.D. Hyde 2002, *Ascomycota* genera *incertae sedis*, one species, type: *W. australiensis* Yanna & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable.

Wallrothiella Sacc. 1882 (= *Zignoina* Cooke 1885 *fide* Species Fungorum 2017), *Amplistromataceae*, *Amplistromatales*, *Sordariomycetes*, ten species, type: *W. congregata* (Wallr.) Sacc., asexual morph unknown, saprobes, terrestrial, worldwide, see Huhndorf et al. (2009; DNA, phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures available for the type: ANM81.

Waltonia Saho 1970, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *W. pinicola* Saho, asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable.

Warcupia Paden & J.V. Cameron 1972, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *W. terrestris* Paden & J.V. Cameron, asexual morph unknown, hypogeous, saprobes, terrestrial, Canada, see Lumbsch and Huhndorf (2010; outline), Barua et al. (2012; environmental adaptations), Hansen (2013; DNA, phylogeny), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 891.69.

Warcupiella Subram. 1972 (= *Sporophormis* Malloch & Cain 1973 [1972] *fide* Species Fungorum 2017), *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, three species, type: *W. spinulosa* (Warcup) Subram., asexual morph unknown, saprobes, terrestrial, worldwide, see Houbraken and Samson (2011; taxonomy, phylogeny), Kirk et al. (2013; genus accepted), culture available for type: CBS 430.64.

Wardinella Bat. & Peres 1960, *Ascomycota* genera *incertae sedis*, one species, type: *W. jaboatonensis* Bat. & Peres, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Wardomyces F.T. Brooks & Hansf. 1923, *Microascaceae*, *Microascales*, *Sordariomycetes*, ten species, type: *W. anomalus* F.T. Brooks & Hansf., hyphomycetous, saprobes, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Sandoval-Denis et al. (2016b; new species, phylogeny), cultures and sequences are available.

Wardomycopsis Udagawa & Furuya 1978, *Microascaceae*, *Microascales*, *Sordariomycetes*, four species, type: *W. inopinata* Udagawa & Furuya, hyphomycetous, saprobes, Asia, Europe, North America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline), Sandoval-Denis et al. (2016b; new species, phylogeny), cultures and sequences are available.

Wawea Henssen & Kantvilas 1985, *Arctomiaceae*, *Arctomiales*, *Lecanoromycetes*, one species, type: *W. fruticulosa* Henssen & Kantvilas, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Wawelia Namysł. 1908, *Xylariaceae*, *Xylariales*, *Sordariomycetes*, three species, type: *W. regia* Namysl., asexual morph unknown, terrestrial, coprophilous, Europe, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Waydora B. Sutton 1976 (= *Pulvinaria* Rodway 1918 [1917] *fide* Species Fungorum 2017), *Valsaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *W. typica* (Rodway) B. Sutton, coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures available for voucher PDD 103894 of the type: (unpublished).

Waynea Moberg 1990, *Ramalinaceae*, *Lecanorales*, *Lecanoromycetes*, seven species, type: *W. californica* Moberg, lichenized, see Lücking et al. (2017a; classification), sequences are available.

Websteromyces W.A. Baker & Partr. 2000, *Ascomycota* genera *incertae sedis*, one species, type: *W. verruculosus* W.A. Baker & Partr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), holotype of the type: AUA, Webster, 11 Jul. 1991, cultures and sequences are unavailable.

Weddellomyces D. Hawksw. 1986, *Dacampiaceae*, *Dothideomycetes* families *incertae sedis* 14 species, type: *W. epicallopisma* (Weddell) D. Hawksw., see Lumbsch & Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), sequences are unavailable, isotype of type: H-Nyl 391.

Wegea Aptroot & Tibell 1997, *Arthoniales* genera *incertae sedis*, *Arthoniomycetes*, one species, type: *W. tylophorelloides* Aptroot & Tibell, lichenized, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequences are unavailable.

Wehmeyera J. Reid & C. Booth 1989, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *W. acerina* (Wehm.) J. Reid & C. Booth, asexual morph unknown, saprobes, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are unavailable.

Wentiomyces Koord. 1907 (= *Acarothallium* Syd. 1937; = *Calochaetis* Syd. 1935; = *Capnodinula* Speg. 1918; = *Chaetostigme* Syd. & P. Syd. 1917; = *Dichaetis* Clem. 1931; = *Neocoleroa* Petr. 1934 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, c. 50 species, type: *W. javanicus* Koord., Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Wenyingia Zheng Wang & Pfister 2001, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, one species, type: *W. sichuanensis* Zheng Wang & Pfister, asexual

morph unknown, saprobes, terrestrial, China, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are unavailable.

Westea H.J. Swart 1988, *Dothideomycetes* genera *incertae sedis*, one species, type: *W. banksiae* H.J. Swart, saprobes, terrestrial, Australia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Westerdykella Stolk 1955, *Sporormiaceae*, *Pleosporales*, *Dothideomycetes*, 49 species, type: *W. ornata* Stolk, asexual morph unknown, saprobes, terrestrial, worldwide, see Kruys and Wedin (2009; new species), Schoch et al. (2009; phylogeny), Asgari and Zare (2010; new species), Lumbsch and Huhndorf (2010; outline), Ebead et al. (2012; new species), Armentano et al. (2013; pathogens of dogs), de Gruyter et al. (2012; new species, phylogeny), Hyde et al. (2013; accepted as a genus in *Sporormiaceae*, phylogeny), Wijayawardene et al. (2014c; outline), Kirk et al. (2013; genus accepted), cultures available for the type: CBS 379.55.

Wetmoreana Arup, Søchting & Frödén 2013 (= *Fulgogasparrea* S.Y.Kondr., N.-H.Jeong, Kärnefelt, Elix, A.Thell & Hur 2013), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *W. texana* (Wetmore & Kärnefelt) Arup, Frödén & Söchting, lichenized, terrestrial, Northern Hemisphere, see Arup et al. (2013: description), Kondratyuk et al. (2013; synonym), Jaklitsch et al. (2016a; classification), sequences are available; this name is deemed invalid in *Index Fungorum* because "… *The identifier cited in the protologue, 'MB 02011', was not issued by a recognized repository* …"; however, the erroneous number is a typographic error for 'MB 202011' as apparent from the context and it is unclear whether this renders the name invalid (e.g. ICN Art. 33.2).

Wettsteinina Höhn. 1907 (= *Pseudosphaeria* Höhn. 1907 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, 29 species, type: *W. gigantospora* (Rehm) Höhn., saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type.

Weufia Bhat & B. Sutton 1985, *Ascomycota* genera *incertae sedis*, one species, type: *W. tewoldei* Bhat & B. Sutton, hyphomycetous, sexual morph unknown, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Whalleya J.D. Rogers, Y.M. Ju & F. San Martín 1997, *Lopadostomataceae*, *Xylariales*, *Sordariomycetes*, two species, type: *W. microplaca* (Berk. & M.A. Curtis) J.D. Rogers, Y.M. Ju & F. San Martín, asexual morph unknown, terrestrial, saprobes, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; transferred to *Lopadostomataceae*), cultures and sequences are available.

Wickerhamia Soneda 1960, *Metschnikowiaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *W. fluorescens* (Soneda) Soneda, saprobes, Japan, France, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Wickerhamiella van der Walt 1973, *Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, 25 species, type: *W. domercqiae* van der Walt & Liebenberg, asexual reproduction is by multilateral budding on either a narrow or a broad base, saprophytic, on nitidulid beetles, flowers of morning glory (*Hibiscus* spp.) and cacti, wine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Wickerhamomyces Kurtzman et al. 2008, *Phaffomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 20 species, type: *W. canadensis* (Wickerham) Kurtzman, Robnett & Basehoar-Powers, asexual reproduction is by multilateral budding, saprophytic, but several species are infrequent clinical isolates, in tree sap fluxes, insect tunnels in trees, leaf litter, berries, soil, tanned leather, soy sauce, blood, lung, eye, worldwide, see de García et al. (2010; new species, DNA), Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Wicklowia Raja, A. Ferrer & Shearer 2010, *Wicklowiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *W. aquatica* Raja, A. Ferrer & Shearer, asexual morph unknown, saprobes, aquatic, USA, see Raja et al. (2010b; taxonomy, phylogeny), holotype of the type: ILL 40790.

Wiesneriomyces Koord. 1907 (= *Aschizotrichum* Rieuf 1962; = *Chaetopeltis* Sacc. 1898; = *Chaetosira* Clem. 1931; = *Gamonaemella* Fairm. 1922; = *Gamospora* Sacc. 1885; = *Setodochium* Bat. & Cif. 1957; = *Tassia* Syd. & P. Syd. 1919 *fide* Species Fungorum 2017), *Wiesneriomycetaceae*, *Tubeufiales*, *Dothideomycetes*, two species, type: *W. javanicus* Koord., hyphomycetous, saprobe, terrestrial, widespread, see Hyde et al. (2011; outline), Kirk et al. (2013; genus accepted), Suetrong et al. (2014; morphology, phylogeny), Bezerra et al. (2017a; phylogeny), Liu et al. (2017, placement), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Wilcoxina Chin S. Yang & Korf 1985, *Pyronemataceae*, *Pezizales*, *Pezizomycetes*, three species, type: *W. mikolae* (Chin S. Yang & H.E. Wilcox) Chin S. Yang & Korf,

asexual morph unknown, hypogeous, saprobes, terrestrial, Europe, North America, see Siemens and Zwiazek (2008; mycorrhizal with *Hebeloma crustuliniforme*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures are available for the type but unpublished, sequence available for the type: DQ220468 (LSU).

Willeya Müll. Arg. 1883, *Verrucariaceae*, *Verrucariales*, *Eurotiomycetes*, eleven species, type: *W. diffractella* (Nyl.) Müll. Arg., lichenized, see Gueidan et al. (2014a; taxonomy), Gueidan and Lendemer (2015; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Wirthiotrema Rivas Plata, Kalb, Frisch & Lumbsch 2010, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, seven species, type: *W. glaucopallens* (Nyl.) Rivas Plata & Kalb, asexual morph unknown, lichenized, terrestrial, tropical, see Rivas Plata et al. (2010a; classification), Sipman et al. (2012; key), Lücking et al. (2017a; classification), sequences are available.

Wojnowiciella Crous, Hern.-Restr. & M.J. Wingf. 2015, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, seven species, type: *W. eucalypti* Crous, Hern.-Restr. & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Crous et al. (2015a, d, 2016a, b; new species, phylogeny), Hernández-Restrepo et al. (2016a; new species, new species, phylogeny), Wijayawardene et al. (2016b, 2017; taxonomy, outline, phylogeny), cultures are available.

Wolfina Seaver ex Eckblad 1968 (= *Wolfina* Seaver 1937 *fide* Species Fungorum 2017), *Chorioactidaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *W. aurantiopsis* (Ellis) Seaver, asexual morph unknown, saprobes, terrestrial, USA, China, see Lumbsch and Huhndorf (2010; outline), Hustad and Miller (2011; DNA, phylogeny), Kirk et al. (2013; genus accepted), sequences are available.

Wolkia Ramsb. 1915 (= *Protascus* Wolk 1913 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *W. decolorans* (Wolk) Ramsb., asexual morph unknown, saprobes, terrestrial, Java, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Wongia Khemmuk, Geering & R.G. Shivas 2016, *Papulosaceae*, *Diaportheomycetidae* families *incertae sedis*, *Sordariomycetes*, two species, type: *W. garrettii* (P. Wong & M.L. Dickinson) Khemmuk, Geering & R.G. Shivas, asexual morph unknown, pathogen, Australia, see Khemmuk et al. (2016; taxonomy, phylogeny), holotype: DAR 76937, cultures and sequences are available.

Woodiella Sacc. & P. Syd. 1899, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *W. natalensis* Sacc. & P. Syd., asexual morph unknown, saprobes, terrestrial, South Africa, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Woswasia Jaklitsch, Réblová & Voglmayr 2012, *Sordariomycetidae* genera *incertae sedis*, *Sordariomycetes*, one species, type: *W. atropurpurea* Jaklitsch, Réblová & Voglmayr, asexual morph formed in culture only (penicilliate heads with terminally arranged, sympodially proliferating conidiogenous cells producing simple ellipsoid to obovoid, hyaline, aseptate conidia holoblastically), myotrophic saprobes, terrestrial, Italy, see Jaklitsch et al. (2013; original description, phylogeny), Réblová et al. (2014; close relationship with *Xylochrysis*), Maharachchikumbura et al. (2015b, 2016b; outline), sequence are available, holotype and ex-type of type: WU 32007, CBS 133167.

Wuestneia Auersw. ex Fuckel 1864, *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, 20 species, type: *W. aurea* (Fuckel) Auersw., forms pycnidial asexual morphs harknessia-like, saprobes, terrestrial, worldwide, see Crous et al. (2012f; placement in new family *Harknessiaceae*), Wijayawardene et al. (2012, 2017; outline), Maharachchikumbura et al. (2015b, 2016b; outline, as *Melanconidaceae*), Hongsanan et al. (2017a; evolution, treated *Melanconidaceae* as a synonym of *Gnomoniaceae*), cultures and sequences are available.

Wynnea Berk. & M.A. Curtis 1867, *Sarcoscyphaceae*, *Pezizales*, *Pezizomycetes*, seven species and two variants, type: *W. gigantea* Berk. & M.A. Curtis, saprobes, terrestrial, Asia, North and Central America, see Lumbsch and Huhndorf (2010; outline), Romero et al. (2012; phylogeny), Kirk et al. (2013; genus accepted), sequences are available

Wynnella Boud. 1885 (= *Midotis* Fr. 1828 *fide* Species Fungorum 2017), *Helvellaceae*, *Pezizales*, *Pezizomycetes*, three species, type: *W. auricula* (Schaeff.) Boud., saprobes, terrestrial, Europe, Asia, North America, see Kirk et al. (2013; genus accepted), Landeros et al. (2015; phylogeny), Zhao et al. (2015, 2016a; new species, phylogeny), sequences are available.

Xalocoa Kraichak, Lücking & Lumbsch 2013, *Graphidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *X. ocellata* (Fr.) Kraichak, Lücking & Lumbsch, asexual morph unknown, lichenized fungi, terrestrial, temperate, see Kraichak et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Xanthocarpia A. Massal. & De Not. 1853, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 13 species, type: *X. ochracea* (Schaer.) A. Massal. & De Not., lichenized, see Arup et al. (2013; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Xanthodactylon P.A. Duvign 1941, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, seven species, type: *X. perforatum* P.A. Duvign, asexual morph unknown, lichenized, terrestrial, see Fedorenko et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Nyati et al. (2013; phylogeny), sequences are unavailable for type species.

Xanthomendoza S.Y. Kondr. & Kärnefelt 1997, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, 20 species, type: *X. mendozae* (Räsänen) S.Y. Kondr. & Kärnefelt, asexual morph unknown, lichenized, terrestrial, see Fedorenko et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Lamit et al. (2011; ecology), Messuti et al. (2011; new species), Moniri et al. (2011; new record), Riddell et al. (2011; air pollution), Bomble (2012; taxonomy), Arup et al. (2013; taxonomy), Hauck et al. (2013a; new records), Kirk et al. (2013; genus accepted), Leavitt et al. (2013; taxonomy), Lindblom and Søchting (2013; genetic diversity of photobiont), Nyati et al. (2013; phylogeny), Diederich et al. (2014; new combination), Kondratyuk et al. (2014; phylogeny), Lindblom (2014; taxonomy), Valadbeigi (2014; floristic), Crittenden et al. (2015; ecology), Gaya et al. (2012, 2015; molecular), Holt et al. (2015; ecology), Mcmullin et al. (2015; new records), Miralles et al. (2015; biostrategy), Suija et al. (2015c; new record), Tripp (2015; inventory), Jaklitsch et al. (2016a; classification), Lücking et al. (2017a; classification), sequences are available.

Xanthoparmelia (Vain.) Hale 1974 (= *Almbornia* Essl. 1981; = *Namakwa* Hale 1988; = *Parmelia* sect. *Xanthoparmelia* Vain. 1890; = *Xanthomaculina* Hale 1985 *fide* Species Fungorum 2017), *Parmeliaceae*, *Lecanorales*, *Lecanoromycetes*, 820 species, type: *X. conspersa* (Ehrh. ex Ach.) Hale, asexual morph unknown, lichenized, terrestrial, worldwide, see Elix and Kantvilas (2009; new species), Tuzen et al. (2009; biosorptive study), Dailey et al. (2010; chemical study), Lumbsch and Huhndorf (2010; outline), Pérez-Vargas et al. (2010b; new species), Yazici et al. (2010; new records), Hawksworth et al. (2011a; checklist), Hodkinson and Lendemer (2011a; molecular), Leavitt and Clair (2011; ecology), Leavitt et al. (2011b, c; taxonomy and molecular), Biazrov (2012; physiology), de Paz et al. (2012; molecular taxonomy), Favero-Longo and Piervittori (2012; transplant expt.), Molnár et al. (2012; molecular), Kirk et al. (2013; genus accepted), Rizzi and Giordani (2013; ecology), Goni et al. (2014; checklist), Jayalal et al. (2014; new species, taxonomy), Cao et al. (2015; molecular), Lücking et al. (2017a; classification), Kanigowski et al. (2016; taxonomy), sequences are available.

Xanthopeltis R. Sant. 1949, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, one species, type: *X. rupicola* R. Sant., lichenized, see Lumbsch and Huhndorf (2010; outline), Arup et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are available.

Xanthopsorella Kalb & Hafellner 1984 (= *Xanthopsora* Gotth. Schneid. & W.A. Weber 1980 [1979] *fide* Species Fungorum 2017), *Catillariaceae*, *Lecanorales*, *Lecanoromycetes*, one species, type: *X. texana* (W.A. Weber) Kalb & Hafellner, asexual morph unknown, lichenized, Mexico, USA, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification); COLO 448, COLO (holotype), cultures and sequences are unavailable, need generic revision.

Xanthopsoroma Elvebakk & S.G. Hong 2010, *Pannariaceae*, *Peltigerales*, *Lecanoromycetes*, two, species, type: *X. contextum* Elvebakk & S.G. Hong, asexual morph unknown, lichenized, terrestrial, see Elvebakk et al. (2010; molecular), sequences are available for type.

Xanthoria (Fr.) Th. Fr. 1861 (see Species Fungorum 2017 for synonyms), *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, ten species, type: *X. parietina* (L.) Beltr., asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Sarı and Tuzen (2010; biosorption), Karagöz et al. (2011; new species), Pisani et al. (2011; physiology), Beck and Mayr (2012; physiology), Demiray et al. (2012; biomonitoring), Arup et al. (2013; taxonomy), Kirk et al. (2013; genus accepted), Kondratyuk et al. (2013c; new species), Nyati et al. (2013; phylogeny), Motiejunaite and Grochowski (2014; new records), Joshi et al. (2015a; checklist), Kaya et al. (2015; natural product), Anar et al. (2016; antigenotoxic and Antioxidant study), Lücking et al. (2017a; classification), sequences are available.

Xanthoriicola D. Hawksw. 1973, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *X. physciae* (Kalchbr.) D. Hawksw., sexual morph unknown, lichenicolous, mainly in Europe, Seifert et al. (2011; morphology), Ruibal et al. (2011; sequences), Ertz et al. (2013; phylogeny), Kirk et al. (2013; genus accepted), Pérez-Ortega et al. (2015; position), sequences are available, isotype of type: S.

Xanthothecium Arx & Samson 1973, *Onygenaceae*, *Onygenales*, *Eurotiomycetes*, one species, type: *X. peruvianum* (Cain) Arx & Samson, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), sequence available for the type: AB053453.

Xenidiocercus Nag Raj 1993, *Ascomycota* genera *incertae sedis*, one species, type: *X. macarangae* (T.S. Ramakr.) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, West Africa, see

Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xenoacremonium L. Lombard & Crous 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *X. recifei* (Leão & Lôbo) L. Lombard & Crous, hyphomycetous, sexual morph unknown, saprobes, Brazil, New Zealand, see Lombard et al. (2015b; morphology, phylogeny), Wijayawardene et al. (2017; outline), ex-type of type: CBS 137.3.

Xenocamarosporium Crous & M.J. Wingf. 2015, *Didymosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *X. acaciae* Crous & M.J. Wingf., coelomycetous, sexual morph unknown, saprobes, Malaysia, see Crous et al. (2015d; taxonomy, phylogeny), Wijayawardene et al. (2016b, 2017; outline, phylogeny), holotype and ex-type of the type: CBS H-22224, CPC 24755.

Xenochalara M.J. Wingf. & Crous 2000, *Dermateaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *X. juniperi* M.J. Wingf. & Crous, hyphomycetous, sexual morph unknown, saprobes, The Netherlands, see Seifert et al. (2011; morphology), Wijayawardene et al. (2017; outline), holotype and ex-type of type: PREM 26210, CBS 670.75.

Xenochora Petr. 1948, *Ascomycota* genera *incertae sedis*, one species, type: *X. sydowii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Ecuador, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable, need generic revision.

Xenoconiothyrium Crous & Marinc. 2011, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *X. catenatum* Crous & Marinc. coelomycetous, saprobes, South Africa, see Crous et al. (2011c; morphology, phylogeny), Wijayawardene et al. (2016b, 2017; morphology, phylogeny, outline), holotype and ex-type: PREM 59486, CMW 22113.

Xenocylindrocladium Decock, Hennebert & Crous 1997 (= *Xenocalonectria* Crous & C.L. Schoch 2000 *fide* Rossman et al. 2016a), *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, three species, type: *X. serpens* Decock, Hennebert & Crous, hyphomycetous, sexual morph formerly known in *Xenocalonectria*, saprobes, terrestrial, South America, see Seifert et al. (2011; morphology), Lombard et al. (2015b; phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Rossman et al. (2016a; nomenclature), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Xenocylindrosporium Crous & Verkley 2009, *Phaeomoniellaceae*, *Phaeomoniellales*, *Eurotiomycetes*, one species, type: *X. kirstenboschense* Crous & Verkley, hyphomycetous, pathogens, South Africa, see Crous and Verkley (2009; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type culture of type: CBS H-20346, CPC 16311.

Xenodidymella Q. Chen & L. Cai 2015, *Didymellaceae*, *Pleosporales*, *Dothideomycetes*, four species, type: *X. applanata* (Niessl) Q. Chen & L. Cai, coelomycetous, saprobes, ?pathogens, terrestrial, cosmopolitan, see Chen et al. (2015b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), epitype and ex-epitype of the type: HMAS 246688, CBS 195.36.

Xenodium Syd. 1935 (= *Xenodiella* Syd. 1935 *fide* Rossman et al. 2016a), *Sordariomycetes* genera *incertae sedis*, two species, type: *X. petrakii* Syd., asexual morph formerly known in *Xenodiella*, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Jayawardena et al. (2014) excluded from *Elsinoaceae* and placed in *Sordariomycetes*, Rossman et al. (2016a; nomenclature), cultures and sequences are available.

Xenodomus Petr. 1922 (= *Bactropycnis* Höhn. 1920; = *Coleonaema* Höhn. 1924; = *Rhabdostromellina* Höhn. 1917; = *Xenodomus* Petr. 1922 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *X. sydowii* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, North America, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Xenogliocladiopsis Crous & W.B. Kendr. 1994, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *X. eucalyptorum* Crous & W.B. Kendr., hyphomycetous, saprobes, Australia, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Lombard et al. (2015b; morphology, phylogeny), epitype and ex-epitype of type: CBS H-21952, CBS 138758.

Xenoheteroconium Bhat, W.B. Kendr. & Nag Raj 1993, *Ascomycota* genera *incertae sedis*, one species, type: *X. bicolor* Bhat, W.B. Kendr. & Nag Raj, hyphomycetous, sexual morph unknown, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Xenolecia Hertel 1984, *Lecideaceae*, *Lecideales*, *Lecanoromycetes*, one species, type: *X. spadicomma* (Nyl.) Hertel, lichenized, see Lumbsch and Huhndorf (2010; outline), Schmull et al. (2011; taxonomy), Kirk et al. (2013; genus accepted), Lücking et al. (2017a; classification), sequences are unavailable.

Xenoleptographium Marinc., T.A. Duong, Z.W. de Beer & M.J. Wingf. 2015, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, one species, type: *X. phialoconidium* Marinc., T.A. Duong, Z.W. de Beer & M.J. Wingf.,

hyphomycetous, sexual morph unknown, saprobes, Indonesia, see Crous et al. (2015e; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type of the type: PREM 61244, CBS 134694.

Xenolophium Syd. 1925 (= *Schizostoma* Ces. & De Not. ex Sacc. 1878 *fide* Species Fungorum 2017), *Pleosporales* genera *incertae sedis*, *Dothideomycetes*, c. five species, type: *X. leve* Syd., asexual morph unknown, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline, treated as *Pleosporales*, genera *incertae sedis*), Hyde et al. (2013; accepted as a genus in *Platystomaceae*), Wijayawardene et al. (2014c; outline, accepted as a genus in *Platystomaceae*), cultures and sequences are available.

Xenomeris Syd. 1924, *Dothideomycetes* genera *incertae sedis*, eleven species, type: *X. pruni* Syd., asexual morph hormonema-like, Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available but lacking for the type, need generic revision.

Xenomycosphaerella Quaedvl. & Crous 2014, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *X. elongata* (Crous & M.J. Wingf.) Quaedvl. & Crous, asexual morph unknown, pathogens, Brazil, Venezuela, see Quaedvlieg et al. (2014; morphology, phylogeny), Guatimosim et al. (2016; morphology, phylogeny), holotype and ex-type culture of type: CBS-H 19824, CPC 13378.

Xenomyxa Syd. 1939, *Ascomycota* genera *incertae sedis*, one species, type: *X. disseminata* Syd., asexual morph unknown, saprobes, terrestrial, Ecuador, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Xenonectriella Weese 1919, *Nectriaceae*, *Hypocreales*, *Sordariomycetes*, twelve species, type: *X. lutescens* (Arnold) Weese, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Etayo and van den Boom (2013; new species, Dominican Republic), Kirk et al. (2013; genus accepted), Brackel et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Xenopeltis Syd. & P. Syd. 1919, *Ascomycota* genera *incertae sedis*, one species, type: *X. philippinensis* Syd. & P. Syd., coelomycetous, sexual morph unknown, saprobes, terrestrial, Philippines, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Xenopenidiella Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *X. rigidophora* (Crous, R.F. Castañeda & U. Braun) Quaedvl. & Crous, hyphomycetous, saprobes, Cuba, see Quaedvlieg et al. (2014; morphology, phylogeny), holotype and ex-type culture of type: CBS H-19938, CBS 314.95.

Xenophacidiella Crous 2011, *Dothideomycetes* genera *incertae sedis*, one species, type: *X. pseudocatenata* Crous, hyphomycetous, sexual morph unknown, saprobes, South Africa, terrestrial, see Crous and Groenewald (2011; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type culture of type: CBS H-20536, CPC 18472.

Xenophaeosphaeria Crous & M.J. Wingf. 2014, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *X. grewiae* Crous & M.J. Wingf., asexual morph unknown, Tanzania, terrestrial, see Crous et al. (2014d; morphology, phylogeny), holotype and ex-type culture of type: CBS H-21999, CPC 24398.

Xenoplaca Petr. 1949, *Ascomycota* genera *incertae sedis*, one species, type: *X. aequatoriensis* Petr., hyphomycetous, sexual morph unknown, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Xenopolyscytalum Crous 2010, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *X. pinea* Crous, hyphomycetous, sexual morph unknown, The Netherlands, terrestrial, see Crous and Groenewald (2010; morphology, phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type culture of type: CBS-H 20488, CPC 14225.

Xenopyricularia Klaubauf, Lebrun & Crous 2014, *Pyriculariaceae*, *Magnaporthales*, *Sordariomycetes*, one species, type: *X. zizaniicola* (Hashioka) Klaubauf, Lebrun & Crous, hyphomycetous, sexual morph unknown, pathogens, terrestrial, worldwide, see Klaubauf et al. (2014; taxonomy, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), Wijayawardene et al. (2017; outline), neotype and ex-neotype cultures for the type: CBS H-21846, CBS133593 = MAFF 240219.

Xenoramularia Videira, H.D. Shin & Crous 2016, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, three species, type: *X. polygonicola* Videira, H.D. Shin & Crous hyphomycetous, sexual morph unknown, plant pathogens, see Videira et al. (2016; morphology, phylogeny), holotype KUS-F19688, isotype CBS H-22541, culture ex-type CBS 141102 = CPC 10852.

Xenoseptoria Quaedvl., H.D. Shin, Verkley & Crous 2013, *Phaeosphaeriaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *X. neosaccardoi* Quaedvl., H.D. Shin,

Verkley & Crous, coelomycetous, sexual morph unknown, pathogenic, terrestrial, South Korea, see Quaedvlieg et al. (2013; morphology, phylogeny), holotype and ex-type strains of the type: CBS H-21312; CBS 128665.

Xenosonderhenia Crous 2012, *Capnodiales* genera *incertae sedis*, *Dothideomycetes*, two species, type: *X. syzygii* Crous, coelomycetous, saprobes, terrestrial, worldwide, see de Gruyter et al. (2012; morphology; phylogeny), Wijayawardene et al. (2017; outline), holotype and ex-type strain of the type: CBS H-20968; CPC 19790.

Xenospadicoides Hern.-Restr., J. Mena & Gene 2017, *Xenospadicoidaceae*, *Xenospadicoidales*, *Sordariomycetes*, one species, type: *X. atra* (Corda) Hern.-Restr., J. Mena & Gene, hyphomycetous, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Xenosporium Penz. & Sacc. 1902 (= *Xenosporella* Höhn. 1923 [1924] *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, 18 species, type: *X. mirabile* Penz. & Sacc., hyphomycetous, sexual morph unknown, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Xenostigme Syd. 1930, *Sordariomycetes* genera *incertae sedis*, one species, type: *X. trichophila* Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Meliolaceae*), Kirk et al. (2013; genus accepted), Hongsanan et al. (2015d; excluded from *Meliolaceae* and placed in *Sordariomycetes* genera *incertae sedis*), cultures and sequences are unavailable.

Xenostigmina Crous 1998, *Melanommataceae*, *Pleosporales*, *Dothideomycetes*, two species, type: *X. zilleri* (A. Funk) Crous, hyphomycetous, saprobes, terrestrial, Canada, British Columbia, see Crous et al. (2009a; morphology, phylogeny), Wijayawardene et al. (2012, 2014c, 2017; outline; phylogeny), Kirk et al. (2013; genus accepted), Tian et al. (2015; morphology, nomenclature, phylogeny), cultures and sequences are available, ex-type strains of type: CBS 115685 = CPC 4010; holotype of type: DAVFP 23272.

Xenostomella Syd. 1930 (= *Plochmothea* Syd. 1939 *fide* Species Fungorum 2017), *Dothideomycetes* genera *incertae sedis*, two species, type: *X. tovarensis* Syd., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline, accepted as a genus in *Microthyriaceae*), Kirk et al. (2013; genus accepted), Wu et al. (2011) and Hyde et al. (2013) did not accept as *Microthyriaceae*, Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Xenostroma Höhn. 1915, *Ascomycota* genera *incertae sedis*, one species, type: *X. caespitosum* (Fuckel) Höhn., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, need generic revision.

Xenoteratosphaeria Quaedvl. & Crous 2014, *Teratosphaeriaceae*, *Capnodiales*, *Dothideomycetes*, one species, type: *X. jonkershoekensis* (P.S. van Wyk, Marasas & Knox-Dav.) Quaedvl. & Crous, asexual morph unknown, pathogens, South Africa, see Quaedvlieg et al. (2014; morphology, phylogeny), epitype and ex-epitype culture of type: CBS H-20095, CBS 122897.

Xenothecium Höhn. 1919, *Hyponectriaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *X. jodophilum* Höhn., asexual morph unknown, saprobes, terrestrial, South America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), holotype of the type: BRIP 22762, cultures and sequences are unavailable.

Xenotypa Petr. 1955 (= *Radulum* Fr. 1825; = *Tylodon* Banker 1902 *fide* Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, one species, type: *X. aterrima* (Fr.) Petr., asexual morph unknown, saprobes, terrestrial, Europe, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Xenus Kohlm. & Volkm.-Kohlm., 1992, *Pyrenulales* genera *incertae sedis*, *Eurotiomycetes*, one species, type: *X. lithophylli* Kohlm. & Volkm.-Kohlm., asexual morph unknown, saprobes, lichenized, marine, on coral, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jones et al. (2015; outline), Lücking et al. (2017a; classification), cultures and sequences are unavailable.

Xepicula Nag Raj 1993, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, four species, type: *X. leucotricha* (Peck) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Kirk et al. (2013; genus accepted), Lombard et al. (2016; new species, phylogeny), Wijayawardene et al. (2016b, 2017; outline, taxonomy), ex-type of the type: CBS 256.57 = MUCL 9860, need generic revision.

Xepiculopsis Nag Raj 1993, *Stachybotryaceae*, *Hypocreales*, *Sordariomycetes*, two species, type: *X. perpulchra* Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Lombard et al. (2016; taxonomic notes), cultures are unavailable.

Xerochrysium Pitt 2013, *Trichocomaceae*, *Eurotiales*, *Eurotiomycetes*, two species, type: *X. dermatitidis* (A. Agostini) Pitt, hyphomycetous, sexual morph unknown,

saprobes, terrestrial, Europe, Australia, see Pitt et al. (2013; taxonomy, phylogeny), lectotype and ex-lectotype of the type: CBS 132.31, IMI 96729=UAMH 802.

Xeroconium D. Hawksw. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *X. borealis* (P. Karst.) D. Hawksw., on wood, Europe, terrestrial, sexual morph unknown, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, holotype of type: H-Karst 1493.

Xerombrophila Baral 2013, *Gelatinodiscaceae*, *Helotiales*, *Leotiomycetes*, one species, type: *X. crystallifera* Baral, G. Marson & Unter., asexual morph hyphomycetous, saprobes, terrestrial, Europe, see Baral et al. (2013b; taxonomy, phylogeny), Wijayawardene et al. (2017; outline), ex-type cultures of the type: CBS 128289.

Xeromedulla Korf & W.Y. Zhuang 1987, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, three species, type: *X. leptospora* W.Y. Zhuang & Korf, asexual morph hyphomycetous, saprobes, terrestrial, China, Philippines, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xeromyces L.R. Fraser 1954 (= *Fraseriella* Cif. & A.M. Corte *fide* Rossman et al. 2016a), *Aspergillaceae*, *Eurotiales*, *Eurotiomycetes*, one species: *X. bisporus* L.R. Fraser, type: *Xeromyces bisporus* L.R. Fraser asexual morph hyphomycetous (*Fraseriella bispora* Cif. & A.M. Corte *fide* Petterson et al. 2011 and Seifert et al. 2011), terrestrial, strongly xerophilic, isolated from dry, sugar-rich foodstuffs, cosmopolitan, see Seifert et al. (2011; morphology), Pettersson et al. (2011; phylogeny, morphology), Under unitary nomenclature (Hawksworth et al. 2011a), the names *Xeromyces* and *Fraseriella* compete for use. Since the former genus name is more widely used and older than the latter, we consider *Fraseriella* to represent a synonym of *Xeromyces*. The synonymy is formally proposed herein as follows:

Xeromyces bisporus **L.R. Fraser, Proc. Linn. Soc. N.S.W. 78:245. 1954.**

≡ *Monascus bisporus* (L.R. Fraser) Arx, Gen. Fungi Spor. Pure Cult.: 84. 1970.

= *Fraseriella bispora* Cif. & A.M. Corte, in Corte Atti Ist. Bot. Univ. Lab. crittog. Pavia Ser. 4 14:109. 1957.

Xerotrema Sherwood & Coppins 1980, *Odontotremataceae*, *Ostropales*, *Lecanoromycetes*, two species, type: *X. megalospora* Sherwood & Coppins, asexual morph unknown, ?saprobes, terrestrial, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xiambola Minter & Hol.-Jech. 1981, *Ascomycota* genera *incertae sedis*, one species, type: *X. mirabilis* Minter & Hol.-Jech., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xiphomyces Syd. & P. Syd. 1916, *Ascomycota* genera *incertae sedis*, two species, type: *X. sacchari* Syd. & P. Syd., hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xiuguozhangia K. Zhang, R.F. Castañeda, Jian Ma & L.G. Ma 2014, *Ascomycota* genera *incertae sedis*, five species, type: *X. rosae* (K. Zhang & X.G. Zhang) K. Zhang & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Zhang et al. (2014b; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Xyladictyochaeta Hern.-Restr., R.F. Castaneda & Gene 2017, *Castanediellaceae*, *Xylariales*, *Sordariomycetes*, one species, type: *X. lusitanica* Hern.-Restr., J. Mena & Guarro, hyphomycetous, saprobes, Europe, see Hernández-Restrepo et al. (2017; taxonomy, phylogeny), sequences are available.

Xylaria Hill ex Schrank 1789 (= *Moelleroclavus* Henn. 1902; = *Xylocoremium* J.D. Rogers 1984 *fide* Réblová et al. 2016c; see Species Fungorum 2017 for additional synonyms), *Xylariaceae*, *Xylariales*, *Sordariomycetes*, c. 350 species, type: *X. hypoxylon* (L.) Grev., asexual morph hyphomycetous, terrestrial, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Fournier et al. (2011; new species), Rogers and Ju (2012; new species), Ma et al. (2012a, 2013; new species), Kirk et al. (2013; genus accepted), Gu et al. (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Senanayake et al. (2015; outline, phylogeny), Réblová et al. (2016c; new species; nomenclature), cultures and sequences are available.

Xyleborus R.C. Harris & Ladd 2007, *Stereocaulaceae*, *Lecanorales*, *Lecanoromycetes*, two species, type: *X. sporodochifer* R.C. Harris & Ladd, asexual morph unknown, lichenized, terrestrial, see Lumbsch and Huhndorf (2010; outline), Lendemer et al. (2013; list), Lendemer and Harris (2015; new species), Lücking et al. (2017a; classification), sequences unavailable.

Xylobotryum Pat. 1895 (= *Melanobotrys* 1926 [1925]; = *Trachyxylaria* 1901; = *Xyloceras* A.L. Sm. 1901 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, two species, type: *X. andinum* Pat., asexual morph unknown, saprobes, terrestrial, tropical, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylochia B. Sutton 1983, *Ascomycota* genera *incertae sedis*, one species, type: *X. stegonsporioides* B. Sutton, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylochora Arx & E. Müll. 1954, *Xylariomycitidae* genera *insertae sedis*, *Sordariomycetes*, three species, type: *X. craticola* (H. Wegelin) Arx & E. Müll., asexual morph unknown, saprobes, Sweden, Switzerland and India, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylocrea Möller 1901, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *X. piriformis* Möller, asexual morph unknown, saprobes, see Kirk et al. (2008; treated as a synonym of *Sarcoxylo* Cooke), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Maharachchikumbura et al. (2015b, 2016b; outline, accepted as a distinct genus), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), cultures and sequences are unavailable.

Xyloglyphis Clem. 1909, *Ascomycota* genera *incertae sedis*, one species, type: *X. striola* (Fr.) Clem., coelomycetous, sexual morph unknown, saprobes, terrestrial, Europe, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylogramma Wallr. 1833 (= *Globuligera* (Sacc.) Höhn. 1918; = *Patellea* (Fr.) Sacc. 1884; = *Patinella* subgen. *Globuligera* Sacc. 1889; = *Peziza* trib. *Patellea* Fr. 1822; = *Scutularia* P. Karst. 1885 [1881-1885]; = *Sphaeropeziella* P. Karst. (1885) [1881-1885] *fide* Species Fungorum 2017), *Helotiaceae*, *Helotiales*, *Leotiomycetes*, 18 species, type: *X. sticticum* (Fr.) Wallr., asexual morph unknown, saprobes, terrestrial, China, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylographa (Fr.) Fr., 1836 (= *Spiloma* Ach. 1803; = *Spilonematopsis* Vain. 1909; = *Stictis* subgen. *Xylographa* Fr. 1822; = *Xylographomyces* Cif. & Tomas. 1953 *fide* Species Fungorum 2017), *Xylographaceae*, *Trapeliales*, *Lecanoromycetes*, 20 species, type: need typification, see Heininger and Spribille (2009; new species), Wetmore (2009; floristic study), Zhdanov (2009; new record), Agnello et al. (2010; ecology), Bilovitz et al. (2010; biodiversity), Brodo (2010; new record), Lumbsch and Huhndorf (2010; outline), Hansen (2012; new record), Mayrhofer et al. (2012; new records), Bennett (2013; review), Hauck et al. (2013b; new record), Kirk et al. (2013; genus accepted), Mayrhofer et al. (2013; new record), Svensson (2013; biodiversity), Svensson et al. (2013, 2016; ecology, biodiversity), Tønsberg (2013; new species), Urbanavichene et al. (2013, new record), Abbas et al. (2014; new records), Goni et al. (2014; new record), Spribille et al. (2014a; systematic, new species), Hämäläinen et al. (2015; biodiversity), Malíček et al. (2015b; new record), Resl et al. (2015; phylogeny), Tarasova et al. (2015, 2016; new record), Węgrzyn et al. (2015; new record), Himelbrant et al. (2016; new record), Kharpukhaeva and Mukhortova (2016; ecology), Motiejūnaitė et al. (2016; new record), Lücking et al. (2017a; classification), sequences are available.

Xylohypha (Fr.) E.W. Mason 1960 (= *Hyphelia* sect. *Xylohypha* Fr. 1849; = *Xylohypha* (Fr.) E.W. Mason 1953 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, six species, type: *X. nigrescens* (Pers.) E.W. Mason, hyphomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylohyphopsis W.A. Baker & Partr. 2000, *Ascomycota* genera *incertae sedis*, two species, type: *X. curta* (Corda) W.A. Baker & Partr., hyphomycetous, sexual morph unknown, saprobes, terrestrial, South Africa, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylomelasma Réblová 2006, *Sordariomycetidae* genera *incertae sedis*, *Sordariomycetes*, three species, type: *X. sordida* Réblová, asexual morph hyphomycetous, saprobes, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Vasilyeva and Stephenson (2014; new species), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), Réblová et al. (2016a; DNA, phylogeny), cultures are available for the type: CBS 131683.

Xylomyces Goos, R.D. Brooks & Lamore 1977, *Aliquandostipitaceae*, *Jahnulales*, *Dothideomycetes*, ten species, type: *X. chlamydosporus* Goos, R.D. Brooks & Lamore, hyphomycetous, sexual morph unknown, aquatic (freshwater/marine), see Shearer et al. (2009; phylogeny), Sivichai and Boonyuen (2010; association with *Jahnula*), Seifert et al. (2011; morphology), Hu et al. (2010a; diversity), Barbosa and Gusmão (2011; diversity), Suetrong et al. (2011a; phylogeny), Sivichai et al. (2011; taxonomy), Zhang et al. (2011a; checklist), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2012, 2014c, 2017; outline), Hyde et al. (2013; accepted as a genus in *Aliquandostipitaceae*), Borse et al. (2014; diversity), da Silva et al. (2015; diversity), Jones et al. (2015; marine genera), Oliveira et al. (2015; diversity), cultures available for the type: SS2917.

Xylona Gazis & P. Chaverri 2012, *Xylonomycetaceae*, *Xylonomycetales*, *Xylonomycetes*, *T. heveae* Gazis & P. Chaverri, coelomycetous, sexual morph unknown, endophytes, see Gazis et al. (2016; phylogeny), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Xylopezia Höhn. 1917, *Dothideomycetes* genera *incertae sedis*, type: data inadequate, see Kirk et al. (2008; treated as a synonym of *Exarmidium*), Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; did not list), Wijayawardene et al. 2014c; outline), sequences are unavailable.

Xylopsora Bendiksby & Timdal 2013, *Umbilicariaceae*, *Umbilicariales*, *Lecanoromycetes*, two species, type: *X. friesii* (Ach.) Bendiksby & Timdal, lichenized, lignicolous, corticolous, often on charred substrata, temperate northern hemisphere, Australia, see Bendiksby and Timdal (2013; phylogenetic placement), Lücking et al. (2017a; classification), type specimen H-ACH-436A sequences are available.

Xyloschistes Vain. ex Zahlbr. 1903 (= *Xyloschistomyces* Cif. & Tomas. 1903 *fide* Species Fungorum 2017), *Stictidaceae*, *Ostropales*, *Lecanoromycetes*, one species, type: *X. platytropa* (Nyl.) Vain. ex Zahlbr., lichenized, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Miądlikowska et al. (2014a; phylogeny), Lücking et al. (2017a; classification), sequences are available.

Xyloschizon Syd. 1922, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *X. weirianum* Syd., asexual morph unknown, saprobes, terrestrial, North America, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Xylotumulus J.D. Rogers, Y.M. Ju & Hemmes 2006, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *X. gibbisporus* J.D. Rogers, Y.M. Ju & Hemmes, asexual morph unknown, saprobes, terrestrial, Hawaii, see Lumbsch and Huhndorf (2010; outline), Rogers and Ju (2012; Hawaii fungi), Chang et al. (2014; secondary compounds), Maharachchikumbura et al. (2015b, 2016b; outline), Wendt et al. (2017; accepted as a genus in *Xylariales* genera *incertae sedis*), holotype: BISH, Rogers, 2 Aug. 2005, cultures available for the type: NBRC 9453, ATCC MYA-4109.

Yalomyces Nag Raj 1993, *Ascomycota* genera *incertae sedis*, six species, type: *Y. pulcher* Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, worldwide, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Yamadazyma Billon-Grand 1989, *Debaryomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, 20 species, type: *Y. philogaea* (van der Walt & Johannsen) Billon-Grand, asexual reproduction is by multilateral budding, saprophytic, in tree exudates and insect frass, insect guts, soil, cactus rots, seawater, soy sauce, infrequent clinical isolates, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), many species in this genus represent asexual taxa originally classified in the genus *Candida*, thus they will be transferred to *Yamadazyma* as new combinations, cultures and sequences are available.

Yarrowia van der Walt & von Arx 1980, ?*Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, 13 species, type: *Y. lipolytica* (Wickerham, Kurtzman & Herman) van der Walt & von Arx, asexual reproduction is by multilateral budding, saprophytic, but clinical isolates are not uncommon, on wet milled maize, refrigerated meats, soil, clinical, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), some species in this genus represent asexual taxa originally classified in the genus *Candida* thus they will be transferred to *Yarrowia* as new combinations, cultures and sequences are available.

Yarrumia D.J. Galloway 2015, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, two species, type: *Y. coronate* D.J. Galloway, lichenized, see Galloway (2015; taxonomy), Lücking et al. (2017a; classification); sequences are available.

Yatesula Syd. & P. Syd. 1917 (= *Ciferriusia* Bat. 1962 *fide* Species Fungorum 2017), *Chaetothyriaceae*, *Chaetothyriales*, *Eurotiomycetes*, two species, type: *Y. calami* Syd. & P. Syd., asexual morph unknown, epiphytic, sooty moulds, terrestrial, America, Philippines, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Yinmingella Goh, K.M. Tsui & K.D. Hyde 1999, *Ascomycota* genera *incertae sedis*, six species, type: *Y. mitriformis* Goh, K.M. Tsui & K.D. Hyde, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, South America, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Yoshimuria S.Y. Kondr., Kärnefelt, Elix, A. Thell & Hur 2014, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, three species, type: *Y. spodoplaca* (Nyl.) S.Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, A.S. Kondr. & Hur, lichenized, see Kondratyuk et al. (2014a; taxonomy), Lücking et al. (2017a; classification), cultures available for the type: SK725, SK724.

Yoshimuriella Moncada & Lücking 2013, *Lobariaceae*, *Peltigerales*, *Lecanoromycetes*, eight species, type: *Y. fendleri* (Tuck. & Mont.) Moncada & Lücking, lichenized, see Moncada et al. (2013a; taxonomy),

Lücking et al. (2017a; classification), sequences are available.

Yoshinagaia Henn. 1904 (= *Japonia* Höhn. 1909; = *Yoshinagamyces* Hara 1912; = *Monoloculia* Hara 1927 *fide* Rossman et al. 2016a), *Dothideomycetes* genera *incertae sedis*, two species, type: *Y. quercus* Henn., asexual morph unknown, saprobes, terrestrial, Japan, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Rossman et al. (2016a; nomenclature), cultures and sequences are unavailable.

Yoshinagella Höhn. 1913, *Dothideomycetes* genera *incertae sedis*, four species, type: *Y. japonica* Höhn, asexual morph unknown, saprobes and parasitic, reported from Japan and Hawaii, see Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), Dai et al. (2014a; phylogeny, *Dothideomycetes*), cultures and sequences are unavailable.

Ypsilina J. Webster, Descals & Marvanová 1999, *Ascomycota* genera *incertae sedis*, one species, type: *Y. graminea* (Ingold, P.J. McDougall & Dann) Descals, J. Webster & Marvanová, hyphomycetous, sexual morph unknown, aquatic, see Seena et al. (2010; DNA barcoding of fungi), Hyde et al. (2011; checklist), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), sequences are available:

Ypsilomyces D.A.C. Almeida & Gusmão 2014, *Ascomycota* genera *incertae sedis*, one species, type: *Y. elegans* D.A.C. Almeida & Gusmão, hyphomycetous, sexual morph unknown, one species, saprobes, terrestrial, Brazil, see Almeida and Gusmão (2014; morphology), holotype of the type: HUEFS 155081, cultures and sequences are unavailable, compare with *Biflagellospora*, *Diademospora*, *Diplocladiella*, *Iyengarina*, *Vanterpoolia*, *Weufia* and *Ypsilina*.

Ypsilonia Lév. 1846 (= *Acanthothecium* Speg. 1889; = *Psalidosperma* Syd. & P. Syd. 1914 *fide* Species Fungorum 2017), *Sordariales* genera *incertae sedis*, five species, type: *Y. cuspidata* Lév., coelomycetous, sexual morph of unknown, saprobes, aquatic, see Hyde et al. (2011; outline), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Yuccamyces Gour, Dyko & B. Sutton 1979, *Ascomycota* genera *incertae sedis*, seven species, type: *Y. purpureus* Gour, Dyko & B. Sutton, hyphomycetous, sexual morph unknown, saprobes, Canada and Cuba, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Yuea O.E. Erikss. 2003, *Xylariales* genera *incertae sedis*, *Sordariomycetes*, one species, type: *Y. chusqueicola* O.E. Erikss., asexual morph unknown, terrestrial, saprobes, Chile, see Lumbsch and Huhndorf (2010; outline), Maharachchikumbura et al. (2015b, 2016b; outline, phylogeny), cultures and sequences are unavailable.

Yueomyces Q.M. Wang, L. Wang, M. Groenew. & T. Boekhout 2015, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, one species, type: *Y. sinensis* (J.Z. Yue) Q.M. Wang, L. Wang, M. Groenew. & T. Boekhout, asexual reproduction is by bipolar budding, saprophytic, Soil, China, see Wang et al. (2015a; taxonomy), cultures and sequences are available.

Zahlbrucknerella Herre 1912 (= *Lecanephebe* Frey 1929; = *Leptopterygium* Zahlbr. 1930; = *Zahlbrucknera* Herre 1910 *fide* Species Fungorum 2017), *Lichinaceae*, *Lichinales*, *Lichinomycetes*, eight species, type: *Z. calcarea* (Herre) Herre, asexual morph unknown, lichenized, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zakatoshia B. Sutton 1973, *Ascomycota* genera *incertae sedis*, two species, type: *Z. hirschiopori* B. Sutton, hyphomycetous, sexual morph unknown, fungicolous, terrestrial, worldwide, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zalerion R.T. Moore & Meyers 1962, polyphyletic, six species, type: *Z. nepura* R.T. Moore & Meyers, hyphomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), marine species referred to *Lulworthiaceae*, *Lulworthiales*, *Sordariomycetes* and *Leotiaceae*, *Helotiales*, *Leotiomycetes* (see Jones et al. 2009, 2015; outline, phylogeny), cultures and sequences available. Terrestrial species need re-evaluation and need to be reassigned, cultures and sequences are available.

Zanclospora S. Hughes & W.B. Kendr. 1965, *Chaetosphaeriaceae*, *Chaetosphaeriales*, *Sordariomycetes*, ten species, type: *Z. novae-zelandiae* S. Hughes & W. B. Kendr., hyphomycetous, sexual morph unknown, saprobes, tropical and subtropical distribution with only two records in temperate region, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Almeida et al. (2013; new species), Kirk et al. (2013; genus accepted), Hernández-Restrepo et al. (2017; taxonomy, phylogeny), cultures and sequences are available.

Zasmidium Fr. 1849, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, c. 70 species names, type: *Z. cellare* (Pers.) Fr., hyphomycetous, sexual morph mycosphaerella-like, five species confirmed based on

DNA, plant pathogens, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Braun et al. (2013; morphology), Phengsintham et al. (2013; species in Laos), Videira et al. (2017; morphology, phylogeny), cultures and sequences are available.

Zebrospora McKenzie 1991, *Ascomycota* genera *incertae sedis*, two species, type: *Z. bicolor* McKenzie, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, Pacific Islands, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zelandiocoela Nag Raj 1993, *Ascomycota* genera *incertae sedis*, one species, type: *Z. ambigua* (Nag Raj & W.B. Kendr.) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, New Zealand, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zeloasperisporium R.F. Castañeda 1996 (= *Neomicrothyrium* Boonmee, H.X. Wu & K.D. Hyde 2014 *fide* Hongsanan et al. 2015b), *Zeloasperisporiaceae*, *Zeloasperisporiales*, *Dothideomycetes*, seven species, type: *Z. hyphopodioides* R.F. Castañeda, hyphomycetous, sexual morph unknown, in air, saprobes, Asia, Australasia, Caribbean, see Cheewangkoon et al. (2009; new species, phylogeny), Seifert et al. (2011; morphology), Crous et al. (2015e; new species, phylogeny), Hongsanan et al. (2015b, 2016c; new species, phylogeny, evolution), Wijayawardene et al. (2017; outline), cultures and sequences are available.

Zelodactylaria A.C. Cruz, Gusmão & R.F. Castañeda 2012, *Ascomycota* genera *incertae sedis*, one species, type: *Z. verticillata* A.C. Cruz, Gusmão & R.F. Castañeda, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Cruz et al. (2012; taxonomy), Wijayawardene et al. (2017; outline), cultures and sequences are unavailable.

Zelopelta B. Sutton & R.D. Gaur 1984 (= *Cladosporothyrium* Katum. 1984 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, one species, type: *Z. thrinacospora* B. Sutton & R.D. Gaur, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zelosatchmopsis Nag Raj 1991, *Ascomycota* genera *incertae sedis*, one species, type: *Z. sacciformis* (R.F. Castañeda) Nag Raj & R.F. Castañeda, coelomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zernya Petr. 1947, *Ascomycota* genera *incertae sedis*, one species, type: *Z. clypeata* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Brazil, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zeroviella S.Y. Kondr. & Hur 2015, *Teloschistaceae*, *Teloschistales*, *Lecanoromycetes*, eight species, type: *Z. papillifera* (Vain.) S.Y. Kondr. & Hur, lichenized, see Kondratyuk et al. (2015d; taxonomy), Lücking et al. (2017a; classification), sequences are available.

Zetesimomyces Nag Raj 1988, *Ascomycota* genera *incertae sedis*, one species, type: *Z. setibicolor* (R.F. Castañeda) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, Cuba, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zetiasplozna Nag Raj 1993 (= *Pestalotia* subgen. *Pestalozzina* Sacc. 1884; = *Pestalozzina* (Sacc.) Sacc. 1895 *fide* Species Fungorum 2017), *Sporocadaceae*, *Amphisphaeriales*, *Sordariomycetes*, six species, type: *Z. unicolor* (Berk. & M.A. Curtis) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, cosmopolitan, see Nicoletti et al. (2010; endophytes), Wijayawardene et al. (2012, 2016b, 2017; outline, taxonomy), Kirk et al. (2013; genus accepted), Crous et al. (2014c; new species), Senanayake et al. (2015; outline), Jaklitsch et al. (2016a; accepted as a genus in *Sporocadaceae*), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available.

Zeugandromyces Thaxt. 1912, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *Z. australis* Thaxt., asexual morph unknown, biotrophic on Coleoptera (Staphylinidae, Paederini), America, Philippines, Sumatra, Sri Lanka, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zeus Minter & Diam. 1987, *Rhytismataceae*, *Rhytismatales*, *Leotiomycetes*, two species, type: *Z. olympius* Minter & Diam., asexual morph unknown, saprobes, terrestrial, Greece, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zevadia J.C. David & D. Hawksw. 1995, *Ascomycota* genera *incertae sedis*, one species, type: *Z. peroccidentalis* J.C. David & D. Hawksw., lichenicolous, Europe, sexual morph unknown, see Seifert et al. (2011; genus accepted), Kirk et al. (2013; genus accepted), no cultures or sequences are available, holotype of type: K(M)-IMI 401823.

Zilingia Petr. 1934, *Ascomycota* genera *incertae sedis*, one species, type: *Z. sibirica* Petr., coelomycetous, sexual morph unknown, saprobes, terrestrial, Siberia, see

Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zimmermanniella Henn. 1902, *Phyllachoraceae*, *Phyllachorales*, *Sordariomycetes*, one species, type: *Z. trispora* Henn., from living leaves, South East Asia, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Zinzipegasa Nag Raj 1993, *Ascomycota* genera *incertae sedis*, one species, type: *Z. argentinensis* (Speg.) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, Argentina, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zodiomyces Thaxt. 1891, *Laboulbeniaceae*, *Laboulbeniales*, *Laboulbeniomycetes*, four species, type: *Z. vorticellarius* Thaxt., asexual morph unknown, biotrophic on aquatic Coleoptera (Hydrophilidae), worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Rossi et al. (2016b; most recent species description), ribosomal sequence are available.

Zoggium Lar.N. Vassiljeva 2001, *Mytilinidiaceae*, *Mytilinidiales*, *Dothideomycetes*, one species, type: *Z. mayorii* (H. Zogg) Lar.N. Vassiljeva, asexual morphs unknown, saprobes, terrestrial, north temperate, Boehm et al. (2009a, b; accepted as in *Mytilinidiaceae*), Hyde et al. (2013; accepted as in *Mytilinidiaceae*), Wijayawardene et al. (2014c; outline), cultures and sequences are unavailable.

Zopfia Rabenh. 1874 (= *Pontoporeia* Kohlm. 1963 *fide* Species Fungorum 2017), *Zopfiaceae*, *Pleosporales*, *Dothideomycetes*, five species, type: *Z. rhizophila* Rabenh., asexual morph unknown, saprobes, terrestrial, worldwide, see Schoch et al. (2009; phylogeny), Lumbsch and Huhndorf (2010; outline), Hyde et al. (2013; accepted as a genus in *Zopfiaceae*), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2014c; outline), cultures and sequences are available.

Zopfiella G. Winter 1884 (= *Ariefia* Jacz. 1922; = *Tripterospora* Cain 1956 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, 30 species, type: *Z. tabulata* (Zopf) G. Winter, asexual morph unknown, coprophilous, saprobes, terrestrial, marine, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Zopfiofoveola D. Hawksw. 1979, *Zopfiaceae*, *Pleosporales*, *Dothideomycetes*, one species, type: *Z. punctata* (D. Hawksw. & C. Booth) D. Hawksw., on earthworm excrements, Sweden, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Jaklitsch et al. (2016a; classification), cultures and sequences are unavailable, holotype of type: (microscope slide) UPS.

Zopheromyces B. Sutton & Hodges 1977, *Ascomycota* genera *incertae sedis*, one species, type: *Z. fasciatus* B. Sutton & Hodges, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Australasia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Zugazaea Korf, Iturr. & Lizoň 1998, *Helotiales* genera *incertae sedis*, *Leotiomycetes*, one species, type: *Z. agyrioides* Korf, Iturr. & Lizoň, asexual morph unknown, saprobes, Canary Islands, Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), holotype of the type: CUP-MM 2844, cultures and sequences are unavailable

Zukaliopsis Henn. 1904, *Myriangiaceae*, *Myriangiales*, *Dothideomycetes*, one species, type: *Z. amazonica* Henn., asexual morph unknown, parasitic, terrestrial, Peru, isotype of the type: S, F5604, see Dissanayake et al. (2014; morphology), Wijayawardene et al. (2014c; outline).

Zunura Nag Raj 1993, *Ascomycota* genera *incertae sedis*, one species, type: *Z. appendiculata* (B. Sutton) Nag Raj, coelomycetous, sexual morph unknown, saprobes, terrestrial, India, see Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable.

Table 2 Nom. dub. genera in Ascomycota (based on Kirk et al. 2008) which were not included in recent literature

Generic name	Authors	Year	Comments
Asteronema	Trevis.	1845	
Blastotrichum	Corda	1838	
Borinquenia	F. Stevens	1917	
Botryodiplodia	Sacc.	1884	
Byssocladium	Link	1816	
Calothyriopeltis	F. Stevens & R.W. Ryan	1925	
Cellulosporium	Peck	1879	
Chaetobasidiella	Höhn.	1918	
Chmelia	Svob.-Pol.	1966	
Coccosporium	Corda	1831	
Coniothecium	Corda	1833	
Cyphellopus	Fayod	1889	
Dinemasporiella	Speg.	1911	
Diplodiella	(P. Karst.) Sacc.	1884	
Endaematus	Raf.	1814	
Halterophora	Endl.	1836	
Hypha	Pers.	1822	
Hyphasma	Rebent. ex Nocca & Balb.	1821	
Leptodothis	Theiss. & Syd.	1914	
Leucosporium	Corda	1833	Seifert et al. (2011) also treated as nom. dub.
Levieuxia	Fr.	1849	
Maurya	Pat.	1898	Nom. illegit., Art. 53.1 (Index Fungorum 2017)
Microstelium	Pat.	1899	
Myxonyphe	Rchb.	1841	
Neottiosporella	Höhn. ex Falck	1923	Seifert et al. (2011) treated as a synonym of *Minimidochium* B. Sutton 1969
Phaeoantenariella	Cavalc.	1969	
Piptostoma	Berk. & Broome	1873	
Piptostomum	Lév.	1845	
Rhinotrichum	Corda	1837	
Scopularia	Preuss	1851	Nom. illegit., Art. 53.1 (Index Fungorum 2017)
Spermatodium	Fée ex Trevis.	1860	
Stemmaria	Preuss	1851	
Variolaria	Pers.	1794	Nom. illegit., Art. 53.1; Nom. rejic., see Arts 14.6, Ex. 5 and 14.7 (Index Fungorum 2017)
Voglinoana	Kuntze	1891	
Weinmannodora	Fr.	1849	
Xylodon	(Pers.) Gray	1821	Nom. rejic., see Arts 14.6, Ex. 5 and 14.7 (Index Fungorum 2017)

Zwackhia Körb. 1855, *Lecanographaceae*, *Arthoniales*, *Arthoniomycetes*, six species, type: *Z. viridis* (Ach.) Poetsch & Schied., lichenized, see Ertz and Tehler (2011; taxonomy) Diederich et al. (2012a; taxonomy), Lücking et al. (2017a; classification); sequences are available.

Zwackhiomacromyces Etayo & van den Boom 2014, ?*Xanthopyrenaceae*, *Collemopsidiales*, *Dothideomycetes*, one species, type: *Z. constrictocarpus* Etayo & Van den Boom asexual morph unknown, parasymbiont on *Megalospora*, terrestrial, Mediterranean Europe, see van den Boom and Etayo (2014; morphology, distinction of similar lichenicolous genera), holotype of the type: P. & B. van den Boom 27046 (BCN), cultures and sequences are unavailable.

Zwackhiomyces Grube & Hafellner 1990 (= *Zwackhiomyces* Grube & Triebel 1989 nom. inval. *fide*

Species Fungorum 2017), *Xanthopyreniaceae*, *Collemopsidiales*, *Dothideomycetes*, 35 species, type: *Z. coepulonus* (Norman) Grube & R. Sant., asexual morph unknown, lichenicolous, terrestrial, worldwide, see Brackel (2008; new species), Diederich and Schultz (2009; new species), Halici and Candan (2009; new species), Roux (2009; new species), van den Boom (2010; new species), Lumbsch and Huhndorf (2010; outline, family placed as *Ascomycota* families *incertae sedis*), Kocakaya et al. (2011; new species), Pérez-Ortega et al. (2011a, 2016; new species, phylogeny), Kirk et al. (2013; genus accepted), Boom and Etayo (2014; new species), holotype of type: O-F72536, cultures available for the type: RO31.

Zygoascus M. T. Smith 1986, ?*Trichomonascaceae*, *Saccharomycetales*, *Saccharomycetes*, six species, type: *Z. hellenicus* M.T. Smith, asexual reproduction is by multilateral budding, saprophytic, but there are some clinical isolates, in soft drinks, fruit juices, insect tunnels, cactus fruits, soil, tanning fluids, clinical isolates, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Zygopleurage Boedijn 1962, *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, type: *Z. zygospora* (Speg.) Boedijn, saprobes, coprophilous, asexual morph phialophora-like, terrestrial, worldwide, see Richardson (2008, taxonomy), Chang et al. (2010, phylogeny), Mungai et al. (2011; taxonomy), Kruys et al. (2015, phylogeny).

Zygosaccharomyces B.T.P. Barker 1901 (= *Zygosaccharis* Clem. & Shear 1931; = *Zygosaccharomycodes* Nishiw. 1929 *fide* Species Fungorum 2017), *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, eleven species, type: *Z. rouxii* (Boutroux) Yarrow, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), cultures and sequences are available.

Zygospermella Cain 1935 (= *Zygospermum* Cain 1934 *fide* Species Fungorum 2017), *Lasiosphaeriaceae*, *Sordariales*, *Sordariomycetes*, six species, type: *Z. setosa* (Cain) Cain, asexual morph unknown, saprobes, terrestrial, worldwide, see Lumbsch and Huhndorf (2010; outline), Kirk et al. (2013; genus accepted), Kruys et al. (2015; DNA, phylogeny), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are available but lacking for the type.

Zygosporium Mont. 1842 (= *Pimina* Grove 1888; = *Urobasidium* Giesenh. 1893; = *Urophiala* Vuill. 1909 *fide* Species Fungorum 2017), *Ascomycota* genera *incertae sedis*, 16 species, type: *Z. oscheoides* Mont., hyphomycetous, saprobe, terrestrial, widespread, see Hyde et al. (2011; outline), Seifert et al. (2011; morphology), Kirk et al. (2013; genus accepted), Wijayawardene et al. (2012, 2017; outline), cultures and sequences are unavailable for type species.

Zygotorulaspora Kurtzman 2003, *Saccharomycetaceae*, *Saccharomycetales*, *Saccharomycetes*, two species, type: *Z. mrakii* (Capriotti) Kurtzman, asexual reproduction is by multilateral budding, saprophytic, fruit drinks, fruit flies, grape must, silage, worldwide, see Lumbsch and Huhndorf (2010; outline), cultures and sequences are available.

Zymoseptoria Quaedvl. & Crous 2011, *Mycosphaerellaceae*, *Capnodiales*, *Dothideomycetes*, seven species, type: *Z. tritici* (Desm.) Quaedvl. & Crous, coelomycetous, sexual morph mycosphaerella-like, plant pathogens on Poaceae, worldwide, see Quaedvlieg et al. (2011, 2014; morphology, phylogeny), epitype and ex-epitype culture of type: CBS H-20545, IPO 323 = CBS 115943.

Zythia Fr. 1825 (= *Zythia* Fr. 1849 fide Species Fungorum 2017), *Gnomoniaceae*, *Diaporthales*, *Sordariomycetes*, type: *Z. resinae* (Ehrenb.) P. Karst. 1890, coelomycetous, sexual morph unknown, endophytic, saprobes, widespread, see Ding et al. (2010; antimicrobial activity), Hyde et al. (2011; checklist), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), Maharachchikumbura et al. (2015b, 2016b; outline), cultures and sequences are unavailable.

Zyxiphora B. Sutton 1981, *Ascomycota* genera *incertae sedis*, one species, type: *Z. appendiculata* (B. Sutton) Nag Raj, hyphomycetous, sexual morph unknown, saprobes, terrestrial, Asia, see Seifert et al. (2011; morphology), Wijayawardene et al. (2012, 2017; outline), Kirk et al. (2013; genus accepted), cultures and sequences are unavailable, needs generic revision.

Doubtful genera

In Table 2, we listed the genera in *Ascomycota* which have been listed as nom. dub. in Kirk et al. 2008 and have not been included in recent literature.

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