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British Fertility SocietySociety for Reproduction and FertilityAssociation of Clinical Embryologists

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Fertility 2020
Reproduction in a changing world
9–11th JANUARY 2019
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Association of Clinical Embryologists

ORAL PRESENTATIONS

SRF post doctoral prize session

SRF.1 Tgfb/smad signalling regulates granulosa cell proliferation and tzp generation during early follicular development

Sofia Granados Aparici, Qin Yang and Hugh J. Clarke

Research Institute – McGill University Health Centre; McGill University; Montreal, Quebec, Canada

SRF.2 Differential follicle stimulating hormone glycosylation modulates follicle growth and survival rates

Gillian P. Johnson^a, George R. Bousfield^b, Kate Hardy^c and Kim C. Jonas^a

^aKing's College London, UK; ^bWichita State University, Kansas, USA; ^cImperial College London, UK

SRF.3 Exploration of chemerin system in human granulosa cells: involvement in polycystic ovarian syndrome

Anthony Estienne, Namya Mellouk, Alice Bongrani, Christelle Ramé, Fabrice Guérif, Pascal Froment and Joelle Dupont
INRA, France

SRF.4 Aberrant Igf2-H19 expression in the placental endocrine zone increases the susceptibility of the mother to poor metabolic health

Jorge Lopez-Tello, Hannah E. J. Yong, Efthimia R. Christoforou, Tina Napso, Ionel Sandovici, Miguel Constancia and Amanda N. Sferruzzi-Perri

Centre for Trophoblast Research, Cambridge, UK

SRF.5 The impact of paternal diet on male reproductive physiology and foetal development in mice

Hannah L. Morgan^a, Donna O'Neil^b, Warwick Dunn^b and Adam J. Watkins^a

^aUniversity of Nottingham, UK; ^bUniversity of Birmingham, UK

Short paper session 1A: ACE pre-reg short papers Jean Purdy prize

SP1A.1 Exploring the follicular steroid metabolome

Jemma Walker^a, Angela Taylor^b, Michael O'Reilly^b and Jackson Kirkman-Brown^a

^aBirmingham Women's & Children's NHS Foundation Trust, UK; ^bUniversity of Birmingham, Institute of Metabolism and Systems Research, UK

SP1A.2 Ex vivo oocyte retrieval following controlled ovarian hyperstimulation at the time of bilateral salpingo-oophorectomy

Amy Cohen^a, Marta Jansa Perez^a, Stuart Lavery^a, Annabel Rattos^a and Jon Butler^b

^aWolfson Fertility Centre, Hammersmith Hospital, Imperial College, London UK; ^bThe Royal Marsden, London, UK

SP1A.3 An analysis of lifestyle factors which may influence sperm maturity levels

Hayley Fryer, Abbie Drinkwater, Rahul Naik and Lucy Richardson

Herts and Essex Fertility Centre, UK

SP1A.4 Blastocyst quality is compromised in embryos presenting longer duration of compaction and direct cleavage

Patricia Fadon, Danielle Breen, Jonathan Taylor and Dima Abdo

Thames Valley Fertility, UK

SP1A.5 Investigating the effects of open and closed vitrification devices on mitochondria in human oocytes

Rachel Howard, Daniel Brison and Tope Adeniyi

Manchester University NHS Foundation Trust, UK

SP1A.6 Obstetric outcomes following donor egg IVF

Beth Halley, Katy Moreno, Jonathan Skull and Shehnaaz Jivraj

Jessop Wing, Sheffield Teaching Hospital NHS Foundation Trust, UK

Short paper session 1B: BFS young clinician short papers**SP1B.1 Reproductive and perinatal outcomes using cryopreserved oocytes: an analysis of the HFEA database from 2010 to 2016 using three clinical models**

Mariano Mascarenhas^a, Hazel Mehlawat^b, Harish M. Bhandari^a and Meenakshi Choudhary^c

^aLeeds Fertility, UK; ^bRoyal Grammar School, Newcastle upon Tyne, UK; ^cNewcastle Fertility Centre at Life, UK

SP1B.2 Metabolic profiling to identify potential targets to improve the ovarian reserve

Karema Al Rashid^a, Amy Taylor^b, Debbie Lawlor^b and Scott Nelson^a

^aUniversity of Glasgow, UK; ^bUniversity of Bristol, UK

SP1B.3 Agonist trigger does not confer a disadvantage in cycles where supraphysiological oestradiol levels are reached

Linda Farahani, Monica Mittal, Lisa Webber, Raj Rai and Rehan Salim

Imperial College Healthcare NHS Trust, UK

SP1B.4 Kisspeptin and neurokinin B interactions in modulating gonadotropin secretion in women with PCOS

Karolina Skorupskaitė^a, Jyothis T. George^b, Johannes D. Veldhuis^c, Robert P. Millar^d and Richard A. Anderson^a

^aMRC Centre for Reproductive Health, The Queen's Medical Research Institute, University of Edinburgh, UK; ^bWarwick Medical School, Coventry, UK; ^cEndocrine Research Unit, Centre for Translational Science Activities, Mayo Clinic, USA;

^dCentre for Neuroendocrinology and Mammal Research Institute, University of Pretoria, South Africa

SP1B.5 Effect of transfer of a poor quality embryo along with a top quality embryo on the outcome during fresh and frozen in vitro fertilization cycles

Sam Dobson^a and Kanna Jayaprakasan^b

^aJessop Wing, Sheffield, UK; ^bDerby Teaching Hospitals NHS Trust, UK

SP1B.6 ICSI does not increase the odds of adverse perinatal outcomes in the absence of male factor subfertility: analysis of 131,686 singleton live births

Prasanna Raj Supramaniam^a, Lee Nai Lim^a, Ingrid Granne^a, Eric Ohuma^b, Enda McVeigh^c, Radha Venkatakrishnan^d, Christian Becker^c and Monica Mittal^e

^aOxford University Hospitals NHS Foundation Trust, UK; ^bCentre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, UK; ^cOxford Endometriosis CaRe Centre, Nuffield Department of Women's and Reproductive Health, University of Oxford, UK; ^dUniversity Hospitals of Derby and Burton NHS Foundation Trust, UK; ^eImperial College Healthcare NHS Trust, St Mary's and Hammersmith Hospitals, UK

Short paper session 1C: Psychosocial aspects and BFS nurse prize**SP1C.1 Analysis of 7810 consecutive counselling sessions: deploying online technologies to improve access to care in a multi-location clinical setting**

Tracey Sainsbury, Janet Owen, Liz Coward-Evans, Mary McCann and Anthony Ryb
London Women's Clinic, UK

SP1C.2 Mental health aspects related to male infertility – Are men being overlooked?

Anastasia Martin, Oliver Brunckhorst and Kamran Ahmed
MRC Centre for Transplantation, King's College London, UK

SP1C.3 Oestradiol concentrations at the time of triggering in Letrozole-IUI cycles are predictive of subsequent clinical pregnancy

Pat Ambrose^a, Riya Thomas^b, Rebecca Samet^a, Frances Roebuck^a, Jennifer Lyon^a, Marco Gaudoin^a and Richard Fleming^a

^a*Glasgow Centre for Reproductive Medicine Fertility, UK;* ^b*University of Glasgow, UK*

SP1C.4 UK fertility clinics need to improve emotional support to patients undergoing IVF treatment

Lucy Beaumont, Celine Jacques, Samya Barkaoui, Caroline Noublanche, Mara Kotrotsou, Julio Louzada and Cristina Hickman
Apricity, UK

SP1C.5 Enhancing the patient treatment experience and improving communication and adherence by means of a digital platform

Kirsty-Lee Wright^a, Charlie Kenny^b, Elin Ng^b, Francesca Steyn^a and Paul Serhal^a

^a*The Centre for Reproductive and Genetic Health, London, UK;* ^b*SALVE, UK*

Short paper session 1D: SRF PhD student prize**SP1D.1 Oocytes mount a delayed DNA damage response involving APC-Cdh1 mediated proteolysis**

Goutham Narayanan Subramanian, Jessica Greaney, Zhe Wei, Olivier Becherel, Martin Lavin and Hayden Homer
University of Queensland – Centre for Clinical Research, Australia

SP1D.2 Metabolomic analysis of mouse embryos to assess the impact of culture using uterine cell-conditioned media in a microfluidic device

Vanessa Mancini^a, Paul J. McKeegan^b, Stacy D. Sherrod^c, Alexandra C. Rutledge^c, Simona G. Codreanu^c, Helen M. Picton^a and Virginia Pensabene^a

^a*University of Leeds, UK;* ^b*Hull York Medical School, UK;* ^c*Center for Innovative Technology (CIT), Vanderbilt University, USA*

SP1D.3 Methionine, one-carbon metabolism and bovine preimplantation embryo development

Constance E. Clare, Desmond A.R. Tutt, Wing-Yee Kwong and Kevin D. Sinclair
School of Biosciences, University of Nottingham, UK

SP1D.4 The effect of age on oocyte energy metabolism and mitochondrial activity and copy number in sheep oocytes, cumulus cells and peripheral blood

Keerthi Gnanaprabha, Paul McKeegan, Erika Berenyi, Jianping Lu and Helen Picton
University of Leeds, UK

SP1D.5 Evolutionary conserved conceptus-derived proteins CAPG and P4HB elicit a transcriptional response in human & bovine endometrial cells that may facilitate implantation

Haidee Tinning^a, Dapeng Wang^a, Alysha Taylor^a, Anna Pullinger^a, Ruth Sutton^a, Georgios Oikonomou^b, Miguel Velazquez^c, Paul Thompson^c, Achim Treuman^c, Mary O'Connell^d and Niamh Forde^a

^a*University of Leeds, UK;* ^b*University of Liverpool, UK;* ^c*University of Newcastle, UK;* ^d*University of Nottingham, UK*

SP1D.6 Developmental programming of porcine muscle progenitor cell fate by foetal growth restriction (FGR)

Yennifer Cortes^a, Claire Stenhouse^b, Cristina Esteves^a, Cheryl Ashworth^a and Xavier Donadeu^a

^aThe Roslin Institute, UK; ^bTexas A&M University, USA

Short paper session 1E: Iwan Lewis Jones prize

SP1E.1 Identification of the most clinically effective method for seminal round cell differentiation, the diagnosis of leukocytospermia, and its relationship with semen quality

Dimitra Apostolia Androni, Stephen Harbottle, Ruth Harman, Elisa Ferraro and Matteo Grasso

Cambridge IVF, NHS Cambridge University Hospitals, UK

SP1E.2 Novel causes of 46XY DSD – the role of DHX37 in human foetal testis development

Spyridon Panagiotis Deligiannis^a, Gabriele Matilonyte^a, Melissa Durgahshree Tharmalingam^a, Michael Rimmer^a, Linda Ferguson^a, Pamela Brown^a, Berenice Bilharinho de Mendonça^b and Rod Mitchell^a

^aUniversity of Edinburgh, UK; ^bUniversity of Sao Paulo, Brazil

SP1E.3 HABSelect: Relationships between measures of sperm DNA integrity, baseline semen sample data and the trial's clinical outcomes

David Miller^a, Riitta Partanen^a, Alex Hargreaves^a, Forough Torabi^a, Lorraine Frew^b, Sofia Tsagdi^b, Rachel Hutton^c, Claudia Romana-Montanara^b, Robert West^a, Jackson Kirkman-Brown^b and Sheena Lewis^c

^aUniversity of Leeds, UK; ^bUniversity of Birmingham, UK; ^cQueen's University Belfast, UK

SP1E.4 The impact of vincristine treatment on prepubertal mouse testis

Caroline Allen, Aisha Parveen, Federica Lopes, Rod Mitchell and Norah Spears

University of Edinburgh, UK

SP1E.5 The relationship between P4 and PGE1 induced intracellular calcium increase in human sperm and correlation to IVF outcome

Morven Dean^a, Sean Brown^b, Sarah Martins da Silva^a and Christopher Barratt^a

^aUniversity of Dundee, UK; ^bUniversity of Abertay, UK

SP1E.6 Recovery of spermatogonial stem cells after in vitro exposure to chemotherapy drugs in a pre-pubertal mouse model

Federica Lopes^a, Prathima Tholeti^b, Satish K. Adiga^b, Rod T. Mitchell^a and Norah Spears^a

^aUniversity of Edinburgh, UK; ^bManipal Academy of Higher Education, India

Short paper session 2A: ACE post reg

SP2A.1 Developing an IVF/ICSI success prediction test based on the vaginal microbiome

Jonathan de Jonge^a, Rivka Koedooder^b, Sam Schoenmakers^b, Nicholas Macklon^c and Joop Laven^b

^aARTPred, Netherlands; ^bErasmus University Medical Centre, Netherlands; ^cLondon Women's Clinic, UK

SP2A.2 Volatile Organic Compounds: Does CE marking fail the smell test?

Sophie Jaques, Bryony Whitten and Rachel Gregoire

Hewitt Fertility Centre Knutsford, UK

SP2A.3 Cell fusion in the preimplantation human embryo is not associated with a significantly decreased live birth rate

Natalie Davis^a, Alison Campbell^b, Rachel Smith^c, Louise Best^b, Samantha Duffy^d, Sue Montgomery^d, Stacy Wheat^e, Laina Davies^f, Fiona Foad^g and Sarah O'Boyle^h

^aCARE Fertility Northampton, UK; ^bCARE Fertility Group, UK; ^cCARE Fertility Sheffield, UK; ^dCARE Fertility Manchester, UK; ^eCARE Fertility London, UK; ^fCARE Fertility Nottingham, UK; ^gCARE Fertility Tunbridge Wells, UK; ^hBeacon CARE Fertility Dublin, Ireland

SP2A.4 The Geri time-lapse incubator significantly improves multiple IVF laboratory outcomes compared to conventional benchtop incubation

Andrew Thomson^a, Giles Palmer^a, Peter Sprober^a, Melanie Meredith^a, Hemlata Thackare^a, Nick Macklon^b and Kamal Ahuja^b

^aLondon Women's Clinic Wales and Bristol, UK; ^bLondon Women's Clinic, UK

SP2A.5 Optimizing FET outcome: the effect of post-warm blastocyst re-expansion and time to embryo transfer

Rebecca King, Victoria Thomas, Rachel Walker, Felicity Heath and Paul Knaggs

Wales Fertility Institute, UK

Short presentation session 2B: Assisted conception**SP2B.1 How is the chance of having at least one baby following fresh ET affected by the number of mature eggs collected for each patient age cohort?**

Mara Kotrotsou, Celine Jacques, Samya Barkaoui, Julio Louzada, Lucy Beaumont, Caroline Noublanche and Cristina Hickman

Apricity, UK

SP2B.2 Higher ongoing pregnancy rates when blastocysts with excluded cells are transferred in frozen compared to fresh cycles

Jennifer Nisbett, Paul Wilson and Valentine Akande

Bristol Centre for Reproductive Medicine, UK

SP2B.3 Ovarian hyperstimulation syndrome – an underreported complication?

Anjali Malhotra^a, Hannah Rosen O'Sullivan^b, Miranda Geddes-Barton^a, Agnieszka Glazewska^a and Yuliya Kopeika^a

^aGuy's and St Thomas' NHS Trust, UK; ^bSt Helier Hospital, UK

SP2B.4 Elective freeze all (segmentation) results in higher clinical pregnancy rates in women with high AMH

Marco Gaudoin, Pat Ambrose, Linda Munn, Frances Roebuck, Nicole Gibson, Jennifer Lyon and Richard Fleming

Glasgow Centre for Reproductive Medicine Fertility, UK

SP2B.5 Endometrial assessment and personalized plan in the treatment of unexplained repeated embryo implantation failure: one year experience

Mona Rahmati, Alessandra Ripanelli, Vaida Smilgeviciute, Shailaja Nair, Ajit Gill, Richard Balet, Kamal Ahuja and Nick Macklon

London Women's Clinic, UK

SP2B.6 Protective effects of omega-3 fatty acids on cyclophosphamide induced fertility alterations

Emmanuel Nnamonu

Federal College of Education, Eha-Amufu, Enugu State, Nigeria

Short paper session 2C: Female reproductive tract**SP2C.1 Dynamic properties of endometrial macrophages regulate tissue homeostasis in the uterus**

Elizabeth Mann

University of Manchester, UK

SP2C.2 Can we detect endometrial markers of hypoxia in women using Magnetic Resonance Imaging (MRI) to improve management of heavy menstrual bleeding (HMB)?

Jane Reavey^a, Catherine Walker^a, Alison Murray^a, Moira Nicol^a, Hilary Critchley^a, Lucy Kershaw^b and Jacqueline Maybin^a

^aMRC Centre for Reproductive Health, Queen's Medical Research Institute, UK; ^bEdinburgh Imaging Facility, UK

SP2C.3 The role of GW4869 in extracellular vesicles (EVs) biogenesis and its effect on embryo-endometrial implantation

Norhayati Binti Liaqat Ali Khan^a, Shaghayegh Basatvat^a, Sarah Elliott^a, Paul Heath^b and Alireza Fazeli^a

^aAcademic Unit of Reproductive and Developmental Medicine Department of Oncology & Metabolism, University of Sheffield, UK; ^bSheffield Institute for Translational Neuroscience, University of Sheffield, UK

SP2C.4 The effect of prokineticin 1 on the angiogenesis in the endometrium during pregnancy

Ewelina Goryszewska, Monika Baryla, Piotr Kaczynski and Agnieszka Wacławik

Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Poland

SP2C.5 Tight junction decoupling from actomyosin in receptive endometrial epithelium is regulated by protein O-GlcNAcylation

Eva Shelmerdine^a, Ruane Peter^a, Jan Brosens^b, Sue Kimber^a, Daniel Brison^c, Melissa Westwood^a and John Aplin^a

^aUniversity of Manchester, UK; ^bWarwick Medical School, University of Warwick, UK; ^cOld St Mary's Hospital, UK

SP2C.6 Cystic ovary disease (COD) impairs functional morphology of the bovine oviduct

Deirdre Scully^a, Peter Dockery^b, Sven Reese^c and Sabine Kolle^a

^aUniversity College Dublin, Ireland; ^bNational University of Ireland, Galway, Ireland ^cLudwig Maximilians University, Germany

Short paper session 2D: Embryo development

SP2D.1 Cytokinesis in early mouse embryo

Filip Vasilev^a and Greg FitzHarris^b

^aCentre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM), Canada; ^bUniversity of Montreal, Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM), Canada

SP2D.2 The metabolic and developmental impact of microfluidic culture on preimplantation bovine embryo development in vitro

Paul McKeegan^a, Virginia Pensabene^b, Paolo Actis^b, Constandinos Savva^b and Helen Picton^b

^aHull York Medical School, UK; ^bUniversity of Leeds, UK

SP2D.3 Effects of different infra-red laser-assisted hatching (LAH) protocols on pre-implantation mouse embryos and embryo attachment

Yaqiong Liu, Celine Jones and Kevin Coward

University of Oxford, UK

SP2D.4 Sex sorting of bovine sperm leads to compromised development of the early embryo

Heather Steele^a, Dimitra Makri^b, Walid Maalouf^b, Sven Reese^c and Sabine Koelle^a

^aUniversity College Dublin, Ireland; ^bUniversity of Nottingham, UK; ^cUniversity of Munich, Germany

SP2D.5 Embryo Ranking Intelligence Classification Algorithm (ERICA): a deep learning-based clinical assistant for blastocysts selection

Alejandro Chavez-Badiola^a, Adolfo Flores Saiffe Farías^a, Gerardo Mendizabal-Ruiz^b and Andrew Drakeley^c

^aNew Hope Fertility Centre, Mexico; ^bUniversidad de Guadalajara, Mexico; ^cHewitt Centre for Reproductive Medicine, UK

SP2D.6 Non-invasive chromosome screening reveals high concordance rate when using MALBAC technique for whole genome amplification for preimplantation genetic testing for aneuploidies

Rabi Odia^a, Jara Ben Nagi^a, Xavier Vinals-Gonzalez^a, Jason Wang^b, Brandon Hensinger^b and Paul Serhal^a

^aCentre for Reproductive and Genetic Health, UK; ^bYikon Genomics, USA

Short paper session 2E: Ovary & folliculogenesis

SP2E.1 Ovarian INSL3 acts as a feedforward drive promoting the growth and steroidogenesis of healthy antral follicles

Ravinder Anand-Ivell, Yanzhenzi Dai and Richard Ivell

University of Nottingham, UK

SP2E.2 The role of vascular androgen receptors in both follicle development and ovarian hyperstimulation syndrome

Tiffany Lin, Weixi Chen, Virginia MacDonald, Norah Spears and Joanne Murray
University of Edinburgh, UK

SP2E.3 Does basal antral follicle count correlate with number of oocytes collected?

Stephanie Schwab, Shelley McGeeney, Michele Robinson, Guy Morris and Dimitrios Mavrelou
Reproductive Medicine Unit, University College London Hospital, UK

SP2E.4 NLRP3 inflammasome activation in low ovarian reserve patients

Carolina Andrés Santé^a, Lisa Rancan^a, Carolina Cordero Rosales^a, Andrea Rodrigo Carbajosa^a, Beatriz Linillos Pradillo^b, Elena Vara Ameigeiras^b, Jesús A. F.Tresguerres^b and Susana Cortés Gallego^a
^a*Clinica Tambre, Spain*; ^b*Universidad Complutense de Madrid, Spain*

SP2E.5 The effect of Junctional zone Igf-2 deletion on the reproductive function of female offspring

John Louca, Sijia Yao, Jorge Lopez-Tello, Hannah Yong, Efthimia Christoforou and Amanda Sferruzzi-Perri
Cambridge University, UK

SP2E.6 Unravelling the naked mole rat ovary: a comparison between the queen and the worker

Yvonne Clarkson^a, Marie McLaughlin^a, Martin Waterfall^a, Susanne Holtze^b, Elvan Boke^c, Thomas Hildebrandt^b and Evelyn Telfer^a
^a*The University of Edinburgh, UK*; ^b*Leibniz Institute for Zoo & Wildlife Research, Germany*; ^c*Centre for Genomic Regulation (CRG), Spain*

Short paper session 3A: Oocytes, embryos and implantation failure**SP3A.1 Live birth and perinatal outcomes in Recurrent Implantation Failure: an analysis of 1,376,454 cycles from the Human Fertilization and Embryology Authority database spanning 1991 to 2016**

William Smith, Mariano Mascarenhas and Harish Bhandari
Leeds Fertility, UK

SP3A.2 The ovaries of transmen indicate effects of testosterone on the primordial follicle pool

Emily Bailie^a, Marie McLaughlin^a, Neale Watson^b, Evelyn Telfer^a and Richard Anderson^a
^a*University of Edinburgh, UK*; ^b*NHS, UK*

SP3A.3 Do androgens and other reproductive hormones influence protein production in an endometrial cell line and therefore have an effect on embryonic implantation in relation to Polycystic Ovary Syndrome

Chloe Elliott, Andrew Marriott and Jayne Charnock
Edgehill University, UK

Short paper session 3B: Environmental influences on metabolic and reproductive health**SP3B.1 Male liver dysfunction as a consequence of prenatal androgen excess**

Louise Dryburgh^a, Kasia Siemienowicz^a, Pan Filis^b, Paul Fowler^b, Colin Duncan^c, Mick Rae^a and Jennifer Thomas^a
^a*Edinburgh Napier, UK*; ^b*University of Aberdeen, UK*; ^c*University of Edinburgh, UK*

SP3B.2 Placenta endocrine malfunction programmes adult offspring metabolic health in a sex-dependent fashion

Efthimia Christoforou, Jorge Lopez-Tello, Hannah Yong, Ionel Sandovici, Alison Forhead, Miguel Constancia and Amanda Sferruzzi-Perri
University of Cambridge, UK

SP3B.3 Assessing the impact of paternal diet on testicular morphology and gene expression in mice

Nader Eid^a, Hannah L. Morgan^a, Christiana Gavriel^a, Marcos Castellanos Uribe^b, Iqbal Khan^b and Adam J. Watkins^a
^a*Division of Child Health, Obstetrics and Gynaecology, School of Medicine, Queen's Medical Centre, University of Nottingham, UK*; ^b*Nottingham Arabidopsis Stock Centre (NASC), School of Biosciences, Sutton Bonington, University of Nottingham, UK*

SP3B.4 Effect of environment and diet on semen quality in man and canines

David Gardner^a, Matt Tomlinson^b, Karen Pooley^b, Mary Bastidas^a, Gary England^a, James Richards^c and Richard Lea^a

^aUniversity of Nottingham, UK; ^bNottingham University Hospitals NHS Trust, UK; ^cUniversity of Birmingham, UK

Short paper session 3C: Embryonic development and metabolism**SP3C.1 Changes in metabolic profiles of blood plasma and blastocyst cavity fluid in response to maternal diabetes during early pregnancy**

Maria Schindler, Sophia Pendzialek, Katarzyna Grybel, Tom Seeling and Anne Navarrete Santos
Institute of Anatomy and Cell Biology, Martin Luther University Faculty of Medicine, Germany

SP3C.2 Aneuploidy screening in inner-cell mass and trophectoderm lineages of bovine blastocysts derived from stimulated and non-stimulated ovarian cycles

Desmond A. R. Tutt^a, Giuseppe Silvestri^b, Robert Simmons^c, Wing-Yee Kwong^a, Gizem Guven-Ates^a, Constance E. Clare^a, Patrick Blondin^d, Alan H. Handyside^e, Darren K. Griffin^b and Kevin D. Sinclair^a

^aSchool of Biosciences, University of Nottingham, UK; ^bSchool of Biosciences, University of Kent, UK; ^cParagon Veterinary Group, UK; ^dL'Alliance Boviteq Inc, Canada; ^eLondon Women's Clinic, London, and the School of Biosciences, University of Kent, UK

SP3C.3 Minimizing miscarriage in ART: IVF or ICSI-derived euploid blastocysts?

Zoya Enakshi Ali^a, Rabia Ahmed Odia^b, Srividia Seshadri^b, Sioban Sen Gupta^a, Suzanne Cawood^b, Paul Serhal^b, Roy Naja^c and Xavier Viñals Gonzalez^b

^aUniversity College London, UK; ^bThe Centre for Reproductive and Genetic Health, UK; ^cIgenomix, UK

SP3C.4 Hyaluronidase-2 changes morphokinetics of in vitro cultured bovine embryos

Ali Fouladi-Nashta^a, Katy Bacon^a and Geraldine Hartshorne^b

^aRoyal Veterinary College, UK; ^bUniversity of Warwick and University Hospitals Coventry and Warwickshire NHS Trust, UK

Short paper session 3D: Reproductive endocrinology**SP3D.1 Immunological stress during development might delay pubertal onset through altering Srd5a1 gene regulation in GnRH-neurons**

Sarai Keestra^a, Ben Bar Sade^b, Gillian Bentley^c, Reinhard Stöger^d and Philippa Melamed^b

^aSchool of Anthropology, University of Oxford, UK; ^bFaculty of Biology, Technion-Israel Institute of Technology, Israel; ^cDepartment of Anthropology, Durham University, UK; ^dFaculty of Science, Nottingham University, UK

SP3D.2 Plasma profile of follicle-stimulating hormone after a single epidural administration via caudal vertebrae in cattle

Kenichiro Sakaguchi^a, Tomoko Suda^b, Ninpetch Nattapong^c, Yojiro Yanagawa^c, Seiji Katagiri^c, Koji Yoshioka^b and Masashi Nagano^d

^aUniversity of Edinburgh, UK; ^bNational Institute of Animal Health, National Agriculture and Food Research Organisation, Japan; ^cHokkaido University, Japan; ^dKitasato University, Japan

SP3D.3 The effects of FSHR positive allosteric modulator on FSH dependent FSHR homomerization and signal pathway activation

Uche Agwuegbo^a, George Bousfield^b, Anthony Albert^c and Kim Jonas^a

^aKing's College London, UK; ^bWichita State University, USA; ^cSt George's University of London, UK

SP3D.4 Effects of Grape Seed Extracts on reproductive parameters in broiler breeder hens

Alix Barbe^a, Namya Mellouk^b, Christelle Rame^a, Jeremy Grandhay^a, Christophe Staub^c, Marine Cirot^c, Eric Venturi^c, Angélique Petit^d, Karine Anger^e, Marine Chahnamian^e, Christophe Rat^e, Joel Delaveau^e, François Mairé^f, Antonella Riva^f, Pascal Froment^a and Joelle Dupont^a

^aINRA UMR85 Unité de Physiologie de la Reproduction et des Comportements PRC, France; ^bNational Institutes of Health, France; ^cINRA UE1297 Physiologie Animale de l'Orfasière, France; ^dINRA UMR Biologie des Oiseaux et Aviculture, France; ^eINRA UE Pole d'Experimentation Avicole de Tours, France; ^fINDENA, France

POSTER PRESENTATIONS

P001 The union of robotics and deep learning for fully automated sperm assessment

Daniel Thomas^a, Robin Maillot^a, Daniela Bakalova^b, Miguel Monteiro^a, Tanguy Damart^a, Sheryl Homa^b and Mohamed Taha^a

^aMojo Diagnostics, France; ^bUniversity of Kent, UK

P002 Success of surgical sperm retrieval in men with cystic fibrosis

Lauren Lacey^a, Joanna Wilkinson^b, Sibte Hassan^c, Helen Hunter^c, Rowland J. Bright-Thomas^d, Muhammad A. Akhtar^c and Andrew Heck^e

^aUniversity of Warwick, UK; ^bUniversity of Manchester, UK; ^cOld Saint Mary's Hospital, Manchester University NHS Foundation Trust, UK; ^dManchester Adult Cystic Fibrosis Centre, Manchester University NHS Foundation Trust, UK; ^eManchester University NHS Foundation Trust, UK

P003 High-throughput phenotypic screening using human spermatozoa for the identification of novel compounds which improve sperm motility

Zoe Johnston, Franz Gruber, Paul Andrews and Christopher Barratt

University of Dundee, UK

P004 Synchronization of sperm dynamics: modification in density gradient centrifugation improves normal motility indices of sperm

Haitham Alhilfi^a, Amal Mohammed^b and Judith Gomez-Martinez^c

^aAl-Qadisiyah University, Iraq; ^bAl-Nahrain University, Iraq; ^cHospital Universitari i Politècnic La Fe, Valencia, Spain

P005 Does inducing capacitation change sperm metabolism?

Merilin Georgiou, Evie Gruszyk, Samuel Edney, Sean Nevin, Steven Reynolds and Allan Pacey

University of Sheffield, UK

P006 CASA and flow-cytometric parameters of semen for use in bovine in vitro embryo production (IVP)

Phillipa C. Dodd^a, Katie L. Burton^b, Jonathan M. E. Statham^b, Desmond A. R. Tutt^a and Kevin D. Sinclair^a

^aSchool of Biosciences, University of Nottingham, UK; ^bRAFT Solutions Ltd, UK

P007 Human sperm [Ca²⁺]_i oscillations require regulation of CatSper by Vm

Stephen Publicover^a, Elis Torrezan^a and Sean Brown^b

^aUniversity of Birmingham, UK; ^bUniversity of Abertay, UK

P008 Rare pathogenic mutations identified by whole exome sequencing of 26 male patients who experienced IVF failure

Shruti Kane^a, Douglas Lester^a, Christopher Barratt^b, Sarah Martins da Silva^b and Sean Brown^a

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P009 Antigen unmasking of phospholipase C zeta in human sperm does not alter potential diagnostic outcome in patients undergoing fertility treatment

Junaid Kashir^a, Bhavesh Mistry^b, Lujain BuSaleh^c, Reema AbuDawas^c, Michail Nomikos^d, Ahmed Ajlan^b, Raed Abu-Dawud^b, Nadya AlYacoub^b, Saad AlHassan^b, F. Anthony Lai^d, Abdullah Assiri^b and Serdar Coskun^b

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P010 The role of vasopressin in human sperm function

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P011 Exploring sperm DNA damage in response to phosphodiesterase inhibitor stimulation of motilityAbigail Sharpe and David Miller*University of Leeds, UK***P012 Effects of freeze-thawing cycles and storage length on testes and sperm morphology**Rosie Mitchell, Stephane Berneau and Charlotte Brassey*Manchester Metropolitan University, UK***P013 The effect of lifestyle on human sperm count and progressive motility: a longitudinal study**Stéphane Berneau^a, Muaamar Noori^b, Mahaah Shehzad^a, Ana-Maria Tomova^a, Maha K. A. Al-Gazi^a, Daniel R. Brison^c, Andrew Povey^b and Michael Carroll^a^a*Department of Life Sciences, Faculty of Science and Engineering, Manchester Metropolitan University, UK;* ^b*Centre for Epidemiology Division of Population Health, Faculty of Biology, Medicine and Health, University of Manchester, UK;*^c*Maternal and Foetal Health Research Centre, Faculty of Biology, Medicine and Health, University of Manchester, UK***P014 Case report: The first infant born following treatment of a HIV positive patient at the Herts and Essex Fertility Centre**Najma Syed, Rahul Naik, Hayley Fryer and Lucy Richardson^a*Herts and Essex Fertility Centre, UK***P015 Clinical outcomes following deferred embryo transfer in stimulated IVF/ICSI cycles: a retrospective study**Bonnie Dickinson^a, Michael Carroll^b, Paul Wilson^a and Corrina Gibbons^a^a*Bristol Centre for Reproductive Medicine, UK;* ^b*Manchester Metropolitan University, UK***P016 Do supplementary intake of vitamins and antioxidants have a role in improving male fertility outcomes?**Vidhya Balakumar and Sarah Martins Da Silva*NHS Tayside, UK***P017 A comparison of microscopic semen assessment as performed by a manual operator and the LensHooke™ X1 Pro**Hayley Fryer, Angela Hejazi, Rahul Naik and Lucy Richardson*Herts and Essex Fertility Centre, UK***P018 Uncertainty and variation in sperm morphology preparation and assessment across UK laboratories**Andrew Allan^a, Mathew Tomlinson^b and Rachel Gregoire^a^a*Hewitt Fertility Centre, Liverpool, UK;* ^b*Nottingham University Hospital, UK***P019 Impact of chemerin on sperm function and embryo development in broiler breeder chicken**Anthony Estienne, Guillaume Bourdon, Jérémy Grandhayé, Erika Caldas-Silveiras, Christelle Ramé, Alix Barbe, Marine Chahnamian, Patrice Ganier, Pascal Froment and Joelle Dupont*INRA, France***P020 Identification of miR-202 in bull testis using in situ hybridization**Bushra T. Mohammed^a and Xavier Donadeu^b^a*College of Veterinary Medicine, University of Duhok, Iraq;* ^b*The Roslin Institute and R(D)SVS, University of Edinburgh, Scotland, UK***P021 Radio frequency electromagnetic radiation from cell phone causes defective testicular function in male wistar rats**Adeoye Oyewopo*University of Ilorin, Nigeria***P022 Comparing sperm parameters in first and second IVF samples: Are there any improvements or is ICSI the last resort?**Leilan Ali, Despoina Besi, Annabel Rattos, Marta Jansa Perez and Rehan Salim*Wolfson Fertility Centre, Hammersmith Hospital, Imperial College, London UK*

P023 Evaluation of early vasectomy failure rate between referral centres following the introduction of 2016 PVSA guidelinesAmber Adamson*Liverpool Women's Hospital, UK***P024 The importance of female reproductive tract metabolites for sperm metabolism and motility**Evie Gruszyk and Steven Reynolds*University of Sheffield, UK***P025 A comparison of outcomes of ICSI using cryopreserved sperm**Samuel Adedero^a, Mari Isdale^b, Helen Hunter^b, Lauren Lacey^c and Muhammad A. Akhtar^b^a*The University of Manchester, UK;* ^b*Old Saint Mary's Hospital, Manchester University NHS Foundation Trust, UK;*^c*University of Warwick, UK***P026 Comparison of the yield of motile sperm following preparation with different commercial media**Stephanie Engley, Rahul Naik and Lucy Richardson*Herts & Essex Fertility Centre, UK***P027 A novel approach to sperm selection for ICSI through thermotaxis**Inmaculada Castilo-Cantero, Mercedes Regueira-Bulgheroni, Joanne Graves, Louise Kellam and Alison Campbell*Care Fertility, UK***P028 Extracellular vesicles – messengers between the mother and the offspring**Kasun Godakumara^a, Ülle Jaakma^b, Andres Salumets^c and Alireza Fazeli^d^a*Tartu University, Estonia;* ^b*Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Estonia;* ^c*Competence Centre on Health Technologies, Estonia;* ^d*Academic Unit of Reproductive and Developmental Medicine, Department of Oncology and Metabolism, University of Sheffield, UK***P029 The prevalence of chromosomal abnormalities in men with azoospermia and severe oligospermia**Neha Mehboob^a, Abhijit Dixit^b, Katherine Martin^b and Kanna Jayaprakasan^c^a*University of Birmingham, UK;* ^b*University Hospitals of Nottingham, UK;* ^c*University of Nottingham, UK***P030 Graphene Oxide as an agent for personalised ARTs**Juliana Simões^a, Marina Ramal-Sanchez^a, Antonella Fontana^b, João Ramalho-Santos^c, Nicola Bernabo^a and Barbara Barboni^a^a*University of Teramo, Italy;* ^b*Università "G. d'Annunzio" Chieti, Italy;* ^c*Center for Neurosciences and Cell Biology, Portugal***P031 The frozen donor oocyte service: Implementing optimization strategies to improve patient outcomes**Keith McEvoy and Nikoletta Panagiotopoulou*Manchester Fertility, UK***P032 Retrospective audit of a sperm donor service: total motile sperm count and pregnancy outcome**Viktorija Asaciovaite^a, Elizabeth Ferguson^a and Valerie Peddie^b^a*University of Aberdeen, UK;* ^b*NHS, UK***P033 Predictive factors of total fertilization failure in conventional IVF**Emma Hogg^a, Davina Hulme^b and Rachel Cutting^b^a*The University of Sheffield, UK;* ^b*Jessop Fertility, UK***P034 Which donor sperm bank will give the best chance of success? -- a multicentre, retrospective study**Sarah Thirlby-Moore^a, Ellen Armstrong^a and Alison Campbell^b^a*Care Fertility Birmingham, UK;* ^b*Care Fertility, UK***P035 Evolving policies and procedures for successful operation of a donor sperm bank**Michelle Ottey*Fairfax Cryobank, USA*

P036 Clinical audit of the performance of Herts and Essex Fertility Centre's donor sperm bank

Fryer Hayley, Abbie Drinkwater, Rahul Naik and Lucy Richardson

Herts and Essex Fertility Centre, UK

P037 Experience with a large pan-ethnic, carrier screening panel on a sperm donor population; lessons for the informed consent process

Pamela Callum and Kara Baldwin

California Cryobank, USA

P038 Exploration of the clinical scientist's experience of carrier matching for donor selection in the IVF clinic

Valerie Shaikly, Sapna Ahuja and Mohamed Taranissi

AGRC, London, UK

P039 The outcomes in pregnancies from the use of donor sperm compared with those resulting from partner sperm. A systematic review and meta-analysis

Christopher Allen^a, Nicola Marconi^b, David McLernon^a, Sohinee Bhattacharya^a and Abha Maheshwari^b

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P040 Caring for egg donors: analysing experiences of 454 women donating eggs to a licenced cryobank in the UK

Marta Wolska, Mimi Arian-Shad, Kamal Ahuja and Nick Macklon

London Egg Bank, London Women's Clinic, UK

P041 The evolution of surrogacy: a legal and clinical perspective

Eleri Williams^a and Francesca Steyn^b

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P042 Think before you test. One clinics experience of ancestry DNA testing and donor conceived children

Charlene Freeman, Mo Thomas, Jane Blower and Tarek Gelbya

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P043 The meaning of social support to well-being of couples undergoing infertility treatment

Alicja Malina and Dorota Suwalska-Barancewicz

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P044 Stress and resilience in relations to psychological well-being of couples undergoing infertility treatment

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^aKazimierz Wielki University, Faculty of Pedagogy and Psychology, Poland; ^bCollegium Medicum UMK, Poland;

^cNicolaus Copernicus University, Faculty of Biology and Environment Protection, Department of Immunology, Poland

P045 Obstetrics and gynaecology doctors views and beliefs regarding social and medically-indicated egg freezing

Linda Farahani, Gabriella Gadd, Tomilola Oke, Monica Mittal, Lisa Webber, Rehan Salim and Raj Rai

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P046 Clinical twin pregnancy reported after delayed ICSI 24 hours post oocyte retrieval

Sam Rhodes^a, Lynne Nice^a, Rahnuma Kazem^a and Alison Campbell^b

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P047 Should a reactive oxygen species (ROS) measurement be part of routine semen analysis?

Georgina Pool, Shaun Rogers and Agnieszka Florek

GENNET City Fertility, UK

P048 An overview of the management and pathway of a nurse led recurrent pregnancy loss service

Anca Capotescu, Chantelle Maison, Srividya Seshadri, Francesca Steyn, Wael Saab and Paul Serhal

The Centre for Reproductive and Genetic Health, UK

P049 Unexplained infertility is increasing over time and across different age groups

Julio Louzada, Celine Jacques, Samya Barkaoui, Lucy Beaumont, Mara Kotrotsou, Caroline Noublanche and Cristina Hickman
Apricity, UK

P050 The storage and disposal of embryos and gametes in the UK: regulations in need of review

James Lawford Davies and Eleri Williams
Hill Dickinson LLP, UK

P051 Towards a clear referral pathway for fertility preservation in survivors of childhood cancer

Lucia Hartigan^a, Louise Glover^b, Helen Groarke^b and Mary Wingfield^a
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P052 Emergency sperm and spermatogonial stem cell retrieval in oncological context

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P053 Fertility preservation in female cancer patients post-chemotherapy treatment

Hannah Ward and Ephraim Yasmin
University College London Hospital, UK

P054 Extracorporeal retrieval and vitrification of oocytes for fertility preservation

Vanessa Pike^a and Sophie Bird^b
^aBeginnings ACU, St Helier Hospital, UK; ^bBeginnings ACU, UK

P055 Double ovarian stimulation (duostim) modified protocol for fertility preservation in female oncology patients – the way ahead! – our experience of 2 years in a tertiary care IVF unit

Geet Sarodey, Barbara Manukian, Danai Balfoussia, Sotirios Saravelos, Stuart Lavery and Rehan Salim
Wolfson Fertility Centre, IVF Hammersmith, London, UK

P056 Awareness level, knowledge and attitude towards fertility preservation among cancer patients in Makkah Region: A cross sectional study

Ramya Sindi
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P057 Is there gender bias in the peer review system at Reproduction?

Marie Biolkova^a, Tom Moore^b, Karen Schindler^c, Karl Swann^d, Greg Fitzharris^e, Christopher Price^e, Lindsay Flook^f, Helen Dick^f and Norah Spears^a
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P058 Top ten priorities for future infertility research

James M. N. Duffy^a, J. Wilkinson^b, S. Lensen^c, M. Vercoe^c, M. Bofill^c, S. Bhattacharya^d, B. Collura^e, C. Curtis^f, J. L. H. Evers^g, R. G. Farquharson^h, S. Franikⁱ, M. Hickey^j, L. Hull^k, H. Nagels^c, N.P. Johnson^k, V. Jordon^c, Y. Khalaf^l, J. Knynenburg^m, R.S. Legroⁿ, B. W. Mol^o, L. Sadler^c, A.S. Otter^p, D. Mavrellos^q, C. Niederberger^r, E.H.Y. Ng^s, L. Puscasiu^t, S. Rautakallio-Hokkanen^u, S. Repping^v, J. Stewart^w, A. Strandell^x, C. Strawbridge^y, M. Showell^c, H.L. Torrance^z, A. Vail^b, M. van Wely^v, N.L. Vuong^{aa}, A.Y. Wang^{bb}, R. Wang^k, M.A. Youssef^{cc} and C.M. Farquhar^c
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P059 Developing a minimum data set, known as a core outcome set, for future infertility research

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P060 Criteria for IVF funding in the NHS are not fit for purpose

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P061 Should mitochondrial replacement therapy be funded by the National Health Service?

Sophie Rhys-Evans and Lucy Frith

University of Liverpool, UK

P062 Does the provision of information influence patients' decisions when selecting the number of embryos for transfer during an ART cycle?

Melissa Ang

Manchester University Foundation Trust, UK

P063 Awareness of age-related female fertility decline amongst medical students: a cross-sectional study

Nawal Zia^a, Nikhil Pattani^a, James Cheshire^b and Justin Chu^c

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P064 Complications encountered by patients post IVF/ICSI at regional tertiary referral NHS fertility unit over a 2-year period

John Philip McManus^a, Heather Agnew^a, Emily Bailie^b, Nicola Campbell^c, Courtney McMullan^d, Adam Snowdon^e and Ishola Agbaje^a

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P065 'Group culture': embryology perspectives of working within a large cohesive group of IVF clinics

Alison Campbell, Rachel Smith, Louise Best, Sue Montgomery, Kathryn Berrisford, Lynne Nice, Ellen Armstrong, Yvonne Lodge, Alex Page, Sharon Corcoran and Cath Drezet
CARE Fertility Group, UK

P066 Probiotic therapy in couples with infertility: a systematic review

Gillian Corbett, David Crosby and Fionnuala McAuliffe

UCD Obstetrics and Gynaecology, Ireland

P067 'Add-on' or take away: managing women with recurrent implantation failure with intralipids during assisted reproductive cyclesRashmi Manning^a, Laura Irving^b and Isaac Evbuomwan^b^aRoyal Victoria Infirmary, Newcastle, UK; ^bQueen Elizabeth Hospital Gateshead, UK**P068 Personalized stimulation for expected high responders during in-vitro fertilization**Thanos Papathanasiou, Lucy Pullan, Marianna Protsyshyn, Teresa Riccio and Nausheen MawalBourn Hall Clinic, UK**P069 Ethnic variation in the risk of preterm birth following frozen embryo transfer: results from analysis of the HFEA database**Mariano Mascarenhas^a, Abigail Sharpe^b and Adam Balen^a^aLeeds Fertility, UK; ^bLeeds Teaching Hospitals Trust, UK**P070 Prescription medication use patterns amongst men and women just prior to an IVF cycle: a retrospective cohort study**Eddie Rostand^a, Mariano Mascarenhas^b, Abigail Sharpe^c, Suhair Ibrahim^c and Harish Bhandari^b^aUniversity of Leeds, UK; ^bLeeds Fertility Clinic, UK; ^cLeeds Teaching Hospitals Trust, UK**P071 Does sperm DNA fragmentation affect the outcome in donor- recipient cycle using intracytoplasmic sperm injection (ICSI) for fertilization?**Anamika Rao and Lydia RuddickManchester Fertility, UK**P072 Ethnicity affects the live birth rate following frozen embryo transfer: analysis of 64,530 frozen embryo transfer cycles from the HFEA database**Mariano Mascarenhas, Abigail Sharpe and Adam BalenLeeds Fertility, UK**P073 Clinical outcomes of 1086 consecutive egg donation cycles from a single UK centre; a comparison of fresh and frozen eggs**Elena Linara-Demakakou, JinJun Wang, Trina Shah, Grace Gibson, Shailaja Nair, Mona Rahmati, Nick Macklon and Kamal AhujaThe London Women's Clinic, UK**P074 Comparison of treatment outcomes between frozen-thawed days 5 and 6 blastocyst transfers**Candice Cheung, Jason Kasraie and Andrew SizerShrewsbury and Telford Hospital NHS Trust, UK**P075 Frozen thawed embryo transfer cycles: clinical clinical outcomes - our experience**Vidhya Balakumar, Philip Milne, Mythili Ramalingam and Suresh KiniNHS Tayside, UK**P076 Comparison of treatment outcomes between fresh days 5 and 6 blastocyst transfers**Candice Cheung, Jason Kasraie, and Andrew SizerShrewsbury and Telford Hospital NHS Trust, UK**P077 Timing of embryo transfer in natural cycle frozen-thawed embryo replacement. Is blastocyst transfer on day 6 after urinary luteinizing hormone-surge superior to day 7?**Matt Noble, Jo Craig, Aysha Bevan and Tim ChildOxford Fertility, UK**P078 Endometrial thickness and its effects on the pregnancy outcomes in hormone replacement frozen thawed embryos transfer cycles**Vidhya Balakumar, Philip Milne and Suresh KiniNHS Tayside, UK

P079 Is assisted reproduction treatment outcome influenced by the time interval from oocyte recovery to ICSI?

Sue Montgomery^a, Katie Birt^b, Alison Campbell^c, Colin Duncan^b and Colin Howles^b

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P080 Can artificial oocyte activation using calcium ionophore improve blastulation rates in women with previous failed or low blastulation yield?

Margarida Avo Santos^a, Iria Castro^a, Alexandra Page^a, Amanda Tozer^a, Sue Montgomery^b and Alison Campbell^c

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P081 PH and osmolality in extended culture systems

Paul Knaggs, Victoria Thomas, Anna Storey, Kathleen Rennison, Eleri Middleton and Sarah Evans

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P082 Safety of originator follitropin alfa (GONAL-f) for fertility treatment – frequency of OHSS and thromboembolism in the scientific literature and the Merck KGaA safety database

Erica Velthuis^a, Julie Hubbard^b, Salvatore Longobardi^a and Thomas D'Hooghe^a

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P083 Characterization of vaginal microbiome and subsequent cytokine response in assisted reproduction cycles and its association with treatment outcome

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P084 Abdominal compartment syndrome due to severe ovarian hyperstimulation syndrome necessitating decompression midline laparotomy-the size of ovaries matters

John Vekinis, Sophie Platts, Emily Cornish, Natasha Eagles, Nicola Roberts, Joseph Iskaros, Adeola Olaitan, Imran Raza, Tarek Abdel Aziz and Ephraim Yasmin

University College London Hospital, UK

P085 Is there an effect of season on the fertility of UK dairy cows?

Bayar Zeebaree^a, Wing Kwong^b, Carlos Gutierrez^c, Kevin Sinclair^b and George Mann^b

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P086 Reproductive outcomes after uterine septum resection

Megan Duncan, Eva Sweeney and Neil McClure

Queen's University Belfast, Northern Ireland

P087 HABSelect: PICSI equalized miscarriage rates among younger and older women by reducing its incidence in the latter

David Miller^a, Robert West^a, Jackson Kirkman-Brown^b, Arri Coomarasamy^b and Sheena Lewis^c

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P088 Epigenetic (DNA methylation) regulation of gene expression of potassium channels in secretory endometrium of women with recurrent implantation failure (RIF)

Hisham AlAhwany^a, Cristina Tufarelli^b, Saad Amer^a and Raheela Khan^a

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P089 ICSI is associated with lower live birth rates compared to conventional IVF in couples with endometriosis undergoing assisted reproductive treatment: an analysis of 20,326 treatment cycles

Hajeb Kamali^a, Islam Gamaleldin^b, Paul Wilson^a and Valentine Akande^a

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P090 Enhanced embryo selection encourages SET without impacting on cumulative LBR

Sophia Jewitt, Rachel McIntosh, Catherine Wass, Laura Irving and Kirsten Keenan

Gateshead Fertility Unit, UK

P091 The effect of autologous Platelet Rich Plasma (PRP) on patients with persistent thin endometrium undergoing frozen embryo transfer cyclesYogitha Rao*Santasa Fertility Pvt. Ltd, India***P092 The impact of endometrioma on IVF/ICSI reproductive outcomes: a systematic review and meta-analysis**Sallwa Alshehre^a, Mark Fenwick^a, Brenda Narice^b and Mostafa Metwally^b^a*The University of Sheffield, UK;* ^b*Sheffield Teaching Hospitals, UK***P093 The addition of recombinant LH or HMG to recombinant FSH in anticipated poor responders does not improve live birth rates**Danai Balfoussia, Sotirios Saravelos, Barbara Manukian, Marta Jansa Perez, Raj Rai and Rehan Salim*Imperial College Healthcare NHS Trust, UK***P094 The use of hMG in expected good responders does not result in higher live birth rates**Danai Balfoussia, Sotirios Saravelos, Geet Sarodey, Marta Jansa Perez, Raj Rai and Rehan Salim*Imperial College Healthcare NHS Trust, UK***P095 The impact of maternal age on target gene expression in embryos and reproductive organs**Juliane Thoma, Maria Schindler, Mareike Pendzialek, Tom Seeling, Juliane-Susanne Jung and Anne Navarrete-Santos*Department of Anatomy and Cell Biology, Martin Luther University Halle-Wittenberg, Germany***P096 Fertility outcomes in IVF/ICSI cycles with low anti-Müllerian hormone**Dayna Gill^a, Ping Lee Hui^a, Jaima Mahmood^a, Simrita Agrawal^a and Justin Chu^b^a*University of Birmingham, UK;* ^b*Birmingham Women's Hospital, UK***P097 The influence of maternal BMI on early embryo development and offspring birth weight by using a consistent paternal contributor**Laura Mason, Christine Leary and Steve D. Maguiness*Hull IVF Unit, UK***P098 AMH predicts cumulative ovarian performance better than individual cycle performance**Thanos Papathanasiou, Donna Stock and Andrea Curry*Bourn Hall Clinic, UK***P099 Stimulation outcomes in age versus non-age induced poor ovarian reserve (AMH < 5.4pmol/L)**Gloria Antwi-Ahima and Meena Choudhary*Newcastle Upon Tyne Hospital, UK***P100 Price comparison of AMH and follicular phase gonadotrophins for testing ovarian reserve**Romana Cuffolo, Fatima Husain, Goli Shenasan, Bardia Azar and Dawn Grenshaw*Wexham Park Hospital, UK***P101 Immunohistochemical localization of androgen receptors in anacyclus pyrethrum roots methanolic extract treated male rats**Muhammad Riaz^a, Muhammad Shahid^b and Jane Robinson^c^a*University of Sargodh, Pakistan;* ^b*University of Agriculture, Faisalabad, Pakistan;* ^c*Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, UK***P102 The effect of different luteal phase support (LPS) regimes on pregnancy outcomes in FET cycles**Katherine Spofforth^a, Zachariah Shehadeh^b, Mona Zaki^b, K Jose^b, Gurpreet Kalra^b and Arianna D'Angelo^b^a*Cardiff University Medical School, UK;* ^b*Wales Fertility Institute, UK***P103 Relaxin receptors and their functionality in the ruminant**Waleed Alhujaili, Y. Dai, R. Ivell and R. Anand-Ivell*The University of Nottingham, UK*

P104 Regulation of Dual Specificity Phosphatases (DUSPs) by fibroblast growth factor 2 in bovine granulosa cells

Lauriane Relav, El Arbi Abulghasem, Jiang Zhongliang, Violaine Bourmaud and Christopher Price
University of Montreal, Canada

P106 Prevalence of polycystic ovarian syndrome in secondary school girls in Mansoura

Maheer Shams^a, Sally Saad^b and Ahmed Shabanna^a

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P107 Prenatal androgen exposure disturbs female liver phenotype in an ovine model of PCOS

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P108 Case report: Oocyte cryopreservation in Turner syndrome mosaic with polycystic ovaries

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P109 A comparison of origio gamete handling products with sage and hartmann's solution

Gizem Turkay, Annabel Rattos, Rehan Salim and Marta Jansa Perez
Wolfson Fertility Centre, UK

P111 Phospholipase C zeta profiles are indicative of optimal sperm parameters in patients undergoing fertility treatment

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P112 Antioxidant effects of calligonum extract on ovarian tissue of PCO model: an experimental study

Mansoureh Movahedin, Fatemeh Tahmasebi and Zohreh Mazaheri
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P113 The impact of paternal diet on foetal growth and placental renin-angiotensin system gene expression

Afsaneh Khoshkardar, Hannah Morgan and Adam Watkins
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P114 The classification and characterization of human corpus luteum development and demise

Ahmed Nazari and Suman Rice
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P115 The role of the APC/C inhibitor Emi2 in the regulation of Meiosis I in mouse oocytes

Petros Marangos, Konstantina Niaka, Sandra Gonzalez Malagon, Konstantinos Stamatiou, Irini Bellou, Eleni Papadopoulou and Andromahi Labrianidou
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P116 Recovery of vaginal microbiota after standard treatment for bacterial vaginosis infection: an observational study

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P117 Sexually transmitted infections (STI) screening in fertility setting: a regional survey

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P118 Evaluation of embryo utilization and pregnancy outcomes for three recombinant gonadotropins when compared with human menopausal gonadotropin

Alejandro Fernandez-Ponce, Dawn Yell, Andrew Drakeley and Rachel Gregoire
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P119 Transporting vitrified donor eggs does not affect success: a review of 220 cycles

Andrew Thomson^a, Giles Palmer^a, Lihua Wen^b, Jinjun Wang^c, Elena Linara-Demakakou^c, Peter Sprober^a, Melanie Meredith^a, Hemlata Thackare^a, Nick Macklon^c and Kamal Ahuja^c

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P120 Classification of late development stages of embryo with artificial intelligence algorithms

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P121 Can artificial intelligence boost chances of success in IVF?

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P122 Fertility predictor: the first AI-driven empowering tool providing patients with realistic expectations associated with different types of treatment

Samya Barkaoui, Celine Jacques, Mara Kotrotsou, Lucy Beaumont, Julio Louzada, Caroline Noublanche and Cristina Hickman

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P123 Suboptimal quality embryos reduce the implantation potential of good quality embryos

Bryony Whitten and Rachel Gregoire

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P124 HRT in autologous frozen embryo transfer cycles is associated with increased biochemical pregnancy rate

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P125 Extracellular vesicles isolated from culture media conditioned by individually cultured bovine embryos as a potential embryo quality marker

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P126 Does cell exclusion at the morula stage indicate embryo correction?

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P127 The effect of prokineticin 1 on the angiogenesis in the endometrium during pregnancy

Ewelina Goryszewska, Monika Baryla, Piotr Kaczynski and Agnieszka Wacławik

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P128 High prevalence of autosomal aneuploidies associated with early pregnancy loss (EPL) in the mare

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P129 IVF/ICSI splits: The best of both worlds?

Farah Shakur, Joanna Murray and Maya Chetty

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P130 Obstetric outcomes of pregnancies after fertility treatment

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P131 Exploring the tool kit: application of Quality Improvement (QI) principles founded from manufacturing within the IVF laboratory using the Model for Improvement (MFI) and lean

Emma Woodland, Nicola Monks, Bridget Barker, Mark Howard, Sarah Derry, Lisa Whale and Aarti Umranikar

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P132 The impact of paternal diet on pre-implantation development and the metabolic sensor AMPK in murine embryos

Lauren Richardson, Ian Nightingale, Hannah L. Morgan and Adam J. Watkins

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P133 Reproduction post-myomectomy: guideline development

Charlotte Brooks and Lisa Webber

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P134 Day 3 versus day 5 (blastocyst) transfer – Does it matter in poor responders?

Nirmal Felix, Adiraja Datta, Geeta Nargund and Stuart Campbell

Create Fertility, UK

P135 Correlation of reproductive hormone profiles and semen quality

Somsin Petyim, Ronnakorn Chukaew, Isarin Thanaboonyawa, Japarath Prechapanic, Pitak Laokirkkiat and Rounsins Choavaratana

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P136 Does presence of a first trimester subchorionic haematoma during fresh IVF cycles impact on pregnancy outcomes?

Angeliki Rouvali, Danai Balfoussia, Lisa Stradiotto, Nader Aziz, Geet Sarodey, Raj Rai and Rehan Salim

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P137 Do women with a predicted poor ovarian response based on antral follicle count experience poor clinical outcomes?

Sotirios Saravelos, Danai Balfoussia, Geet Sarodey, Barbara Manukian, Stuart Lavery and Rehan Salim

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P138 Should patient age be considered within an elective single embryo transfer (SET) policy?

Celine Jacques, Samya Barkaoui, Mara Kotrotsou, Lucy Beaumont, Julio Louzada, Caroline Noublanche and Cristina Hickman

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P139 The effect of equilibration time on pregnancy rate in frozen-thawed embryo transfer cycles

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P140 Morphological abnormalities of equine fetuses obtained from mares presenting with early pregnancy loss

Anne Kahler, Imelda M. McGonnell, Harriette Smart, Ken C. Smith, D. Claire Wathes and Amanda M. de Mestre
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P141 Differential metabolic profiles of lactobacillus species and preterm birth-associated bacteria

Emmanuel Amabebe, Dilly Anumba and Steven Reynolds
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P143 The prevalence of chromosomal abnormalities in couples experiencing recurrent miscarriages

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P144 ICSI does not improve reproductive outcomes in varied ovarian response cycles in the absence of male factor subfertility: analysis of 327,979 index ART treatment cycles

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P145 Effect of post-thaw processing conditions on human ovarian stroma

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P146 Morphological and molecular assessment of cryopreserved bovine ovarian tissue

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P147 Optimizing the differentiation of granulosa cells from mouse embryonic stem cells

Lucy Watson^a, Kate Hardy^b and Andrew Childs^b

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P148 A proposed national guideline for the management of ovarian torsion

Linda Farahani, Sarah Wali, Monica Mittal, Raj Rai, Rehan Salim and Lisa Webber
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P149 Ovarian histomorphometry and follicular development in pre-pubertal albino rats with dietary Vitamin D supplementation

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P150 Determining frozen ovarian cortical tissue composition after enzymatic dissociation

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P151 Mid-cycle scans in controlled ovarian stimulation, are they needed? A re-audit from a large IVF centre

Lewis Nancarrow, Benjamin Twist and Andrew Drakeley
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P152 Do environmental contaminants alter oviduct epithelial nutrient transport?

Vasiliki S. Papachristofi^a, Jeanette M. Rotchell^b and Roger G. Sturme^a

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P153 Diagnostic accuracy of oxidation-reduction potential (ORP) in predicting the outcome of intrauterine insemination

Josephine Wooller, Jessica Meadows, Amy Sharpe, Michaela Wyner, Rory Turley, Jane Blower and Neelam Potdar
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P154 A comparative analysis of birth weights following a fresh or frozen blastocyst single embryo transfer

Najma Syed, Rahul Naik, Hayley Fryer, Lucy Richardson and Abbie Drinkwater
Herts and Essex Fertility Centre, UK

P155 Does ovarian response differ with age in women with diminished ovarian reserve?

Gloria Antwi-Ahima and Meenakshi Choudhary
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P156 The atypical profiles of HDP biomarkers in aged pregnancy with hypertensive disorders of pregnancy: analysis of maternal senescence

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P157 The effect of ovine whole ovary cryopreservation on the oocyte and its developmental potential

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P158 Should clomifene citrate be available in primary care: an in-depth interview study

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P159 CGG-repeat RNA aggregates induce granulosa cell death in a model of Fragile X-associated premature ovarian insufficiency

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P160 Reproductive outcomes and predictors for success following hysteroscopic tubal cannulation for proximal tubal disease

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P161 A computational exploration of extracellular vesicles behaviour in the maternal tract

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P162 Progesterone regulates expression of mammal specific conserved miRNAs and their predicted targets in endometrial epithelial cells and may modify their secretion via extracellular vesicles in vitro

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P163 A set of microRNAs that emerged at the origin of placental mammals and retained thereafter, respond to physiological cues in the endometrium involved in early pregnancy success, in different species

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P164 Using a microfluidics approach to investigate how maternal metabolic stressors alter the proteomic composition of the uterine luminal fluid secretome produced in vitro

Tiago DeBem, Haidee Tinning, Stefania Moutevelidi, Elton Vasconcelos and Niamh Forde
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P165 Microfluidic devices can isolate higher quality sperm compared to density gradient centrifugation

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P166 Examining the impact of mitosis duration on embryo development

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P167 Placental endocrine malfunction programmes metabolic derangements in offspring

Amanda Rodgers, Hannah Yong, Jorge Lopez-Tello, Ionel Sandovici, Miguel Constancia and Amanda Sferruzzi-Perri
University of Cambridge, UK

P168 Developmental programming of Mesenchymal Stem/Stromal cells (MSCs) by foetal growth restriction

Cristina Esteves, Viktorija Avikina, Blake Klein, Yennifer Cortes-Araya, Susan Dan-Jumbo, Claire Stenhouse and Xavier Donadeu
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P169 Can monitoring progesterone levels in frozen embryo transfer cycles reduce pregnancy loss

Yvonne Lodge, Andrina Louisy, Diana Baranowski, Judy Reid and Alison Campbell
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P170 Pressure effects of oil and water-soluble contrast media in tubal flushing: a pilot study

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P171 Insulin-like growth factor 2 overexpression alters murine placental structure

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P172 Oocyte cytoplasmic maturation: design, organization and synchrony

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P173 Determining true background rate of endometriosis and if diagnosis preoperatively can be made, in a low risk population, utilizing a questionnaire

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P174 Using nuclear magnetic resonance metabolomics as a non-invasive way of diagnosing endometriosis

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P175 Bisphenol S causes mitochondrial dysfunction and meiotic defects during pig oocytes maturation

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P176 In an egg donation programme, does AMH, age and history of previous pregnancy predict the number of mature oocytes obtained?

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P177 Is the presence of multi-nucleation on Day2/3 associated with reduced implantation potential?

Ashley Payne and Lyndsey Zujovic
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P178 The pig as a model for cloacal malformations

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P179 Deep learning assessment of ICSI morphology as a predictor of ICSI success

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P180 The operator during oocyte retrieval matters: Findings from a large cohort of more than 10,000 cycles

Thanos Papathanasiou, Chhaya Prasannan-Nair, Vijayalakshmi Babbur, Valentina Mauro, Sharleen Hapuarachi and Nausheen Mawal
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P181 Involvement of ATP in the differential sensitivity of InsP3- and Sr2+-induced Ca2+ release between mouse and human eggs

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P182 Age and stage specific sensitivity of prepubertal mouse oocytes to virification-warming

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P183 Distinct modes of chromosome lagging in meiosis-I predict aneuploidy in mouse oocytes

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P184 A mouse embryonic stem cell model reveals maternal protein restriction around conception alters embryonic signalling and metabolic phenotype

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P185 Proper structure of the oocyte-cumulus extracellular matrix depends on the interaction between hyaluronan and inter-alpha-trypsin inhibitor proteins in ovarian follicles

Eva Nagyova and Petr Vodicka
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P186 Single strand DNA-binding proteins (Ssb1 and Ssb2): Novel determinants of oocyte development and female fertility

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P187 Classification of embryos at the morula stage is highly correlated with live birth outcome

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P188 Types of vacuolation, in the human preimplantation embryo and association with live birth

Rachel Smith^a, Alison Campbell^a, Sue Montgomery^b, Louise Best^a, Fiona Foad^c, Natalie Davis^d, Samantha Duffy^b, Sarah O'Boyle^e, Sarah Thirby-Moore^f, Stacy Wheat^g and Laina Davies^h

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P189 Can blastocyst percentage of re-expansion after warming be used to predict implantation potential and live birth outcome?

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P190 A prospective randomized sibling-oocyte study of two uninterrupted media systems for culturing blastocysts: impact on blastulation, implantation and ongoing pregnancy rates

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P191 Blastocyst cell membrane lipid profile can be changed upon the co-culture with multilamellar vesicles: a new strategy to modulate lipids in embryos?

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P192 Using morphokinetics to determine which high quality blastocyst to select for transfer

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P193 Is the increase in success rate over time observed in the HFEA register associated with increased proportion of blastocyst transfers?

Cristina Hickman, Celine Jacques, Samya Barkaoui, Julio Louzada, Caroline Noublanche, Lucy Beaumont and Mara Kotrotsou

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P194 CPEB2 mediates stabilization and subcellular localization of TJP1 mRNA during mouse blastocyst formation

Inchul Choi and Seulah Lee

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P195 Association between blastocyst grade and day of biopsy and euploidy rates

Thomas Stavrakis, Abeo McCollin, Balsam Al-hashimi, Julija Gorodeckaja, Kamal Ahuja, Nick Macklon and Michael Summers

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P196 Progesterone levels on the day of euploid frozen embryo transfer following preimplantation genetic testing do not impact livebirth rate

Efstathios Theodorou, Jara Ben Nagi, Ozkan Ozturk, Carleen Heath, Suzanne Cawood and Paul Serhal

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P197 How many oocytes are required to generate at least one euploid embryo?

Thomas Stavrakis, Michael Summers, Julija Gorodeckaja, Balsam Al-hashimi, Elena Linara-Demakakou, Jinjun Wang, Kamal Ahuja and Nick Macklon
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P198 Assessing the impact of maternal age on frozen embryo replacement outcomes

Barbara Manukian, Geet Sarodey, Sotirios Saravelos, Annabel Rattos, Marta Jansa and Rehan Salim
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P199 Does EmbryoGlue® have an impact on outcomes for fresh and frozen day 5 embryo transfers?

Patricia Fadon, Kimberley Hill, Dima Abdo and Danielle Breen
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P200 Choice of oil impacts the degree of osmolality change of single step IVF culture medium within non-humidified incubators

Stephanie Gadd
CARE Fertility Bath, UK

P201 Avoiding day 3 morphological assessment improves embryo utilization rates with the use of a single step culture medium in standard culture incubators

Sarah Owen, Emily French, Mariano Mascarenhas, Karen Thompson and Adam Balen
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P202 Is day three KIDScore an effective tool to predict blastocyst development, and defer embryo transfer to day 5?

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P203 Preliminary experience with KIDScore

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P204 Embryo development and function is compromised by concentrations of advanced glycation end products found within the obese uterine environment

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P205 Do we need a laser to perform trophoctoderm biopsy for PGT-A?

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P206 Effects of AdipoRon, an adiponectin receptor agonist, on proliferation and steroid secretion by human granulosa cells

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P207 Naringenin upregulates the expression of CYP17 and CYP 19 in the rats' testes; any effects on sperm functionality?

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P208 Time lapse and older patients; Does it improve their chances?

Charlene Freeman, Jane Blower, Tarek Gelbya, Amy Sharpe and Neelam Potdar

*Leicester Fertility Centre, UK***P209 Species-specific dynamics of mitochondrial content within an embryo during preimplantation development in mice and cattle**

Masaya Komatsu, Fumi Yokoi, Shun Imai, Maiko Yamane, Hanako Bai, Masashi Takahashi and Manabu Kawahara

*Hokkaido University, Japan***P210 Impact of below average trophectoderm or inner cell mass grading on implantation rates in 2385 consecutive cases**

Catarina Moreira, Trina Shah, Elena Linara-Demakakou, Kamal Ahuja, Nick Macklon and Jinjun Wang

*London Women's Clinic – London, UK***P211 Aetiology and prevalence of uterine factor abnormality among women attending infertility clinic at a tertiary hospital in north-west Nigeria: a cross-sectional study**Abdulrafiu Popoola^a and Adebisi Adesiyun^b^a*Nigeria Defence Academy Hospital, Kaduna, Nigeria;* ^b*Ahmadu Bello University Teaching Hospital, Nigeria***P212 Clinical outcome of day 6 cryopreserved embryos transferred into day 5 endometrium**

Linsey White, Joanne Leitch, Daniel Collins and Catherine Beaton

*Glasgow Royal Infirmary, UK***P213 Embryo-secreted microRNA miR-294 is correlated to DNA fragmentation at the blastocyst stage**

Dimitra Makri, Eftychia Michailidou, Panagiota Efthymiou and Walid Maalouf

*University of Nottingham, UK***P214 Could the use of TUDCA in in vitro culture of bovine embryos be beneficial to its development?**

Elisa Mariano Pioltine, Camila Bortoliero Costa and Marcelo Fábio Gouveia Nogueira

*São Paulo State University (UNESP), Brazil***P215 Optimal concentration of Acetyl-L Carnitine for use in in vitro bovine embryo production**

Gizem Guven Ates, Desmond A. R. Tutt, Wing-Yee Kwong, Constance E. Clare and Kevin D. Sinclair

*School of Biosciences, University of Nottingham, UK***P216 Effects of high non-esterified fatty acids exclusively during in vitro fertilization on levels of reactive oxygen species in bovine zygotes**Abdullah Idriss^a, Edward Okello^a, Roger Sturmey^b and Miguel Velazquez^a^a*Newcastle University, UK;* ^b*Hull York Medical School, UK***P217 Non-invasive embryo evaluation and selection in Assisted Reproduction Treatment (ART): Systematic review and meta-analysis**Marie Claire Aquilina^a, Walid Maalouf^a and Kannamannadiar Jayaprakasan^b^a*University of Nottingham, UK;* ^b*University of Nottingham, UK and Royal Derby Hospital, Derby, UK***P218 Examining the effect of nicotine on a mouse model of the ovarian reserve**

Sara Idrees and Mark Fenwick

*University of Sheffield, UK***P219 Myometrial function and viability following controlled-rate cryopreservation of ovine uteri**

Sabrina Jaffer, Matthew Elmes and Juan Hernandez-Medrano

*University of Nottingham, UK***P220 Prevalence of eating disorders amongst pregnant women attending antenatal care at a tertiary teaching hospital in north-west Nigeria: outcome with the use of a screening tool**

Sakina Gazali and Adebisi Adesiyun

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P221 Microsurgical Testicular Sperm Extraction (micro-TESE) for azoospermia at a large tertiary referral centre: demographics and histopathological results

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P223 Sertoli only cell syndrome in non-obstructive azoospermic men: What can we do to increase sperm yield from micro-TESE?

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P224 Evaluation of patient information leaflets provided in fertility centres by the Flesch and Flesch-Kincaid method

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P225 Evaluation of return rates of female oncofertility patients and a comparison with male return rates

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P227 The effect of unincorporated cells on blastocyst grade and treatment outcome

Konstancja Neville, Daniela Smale, Joel Gunn, Anthony Price and Sue Ingamells

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P228 Obstetric outcomes in women with severe ovarian hyperstimulation syndrome following assisted reproduction: a case-control study

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P229 Injudicious Clomiphene Citrate (CC) therapy in the secondary care setting

Thomas Bamford and Charles Kingsland

Lancashire Teaching Hospital Trusts, UK

P230 Use of intracytoplasmic morphologically selected sperm injection (IMSI) reduces risk of miscarriage and increases embryo utilization in patients with high sperm DNA damage

Blair Sowry^a, Rabi Odia^a, Sheena Lewis^b, Paul Serhal^a, Shahriar Mowla^c, Shirin Khanjani^a and Jara Ben-Nagi^a

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P231 Which is the best AMH or AFC in predicting ovarian response in IVF for patients with discordant AMH AFC results?

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P232 A re-evaluation of NICE guidance for donor insemination: evidence from 8.922 consecutive treatments from a single centre

Daniel Bodri, Elena Linara-Demakakou, Jinjun Wang, Giuseppina Lamanna, Mimi Arian-Schad, Shailaja Nair, Nick Macklon and Kamal Ahuja

London Women's Clinic, UK

P233 A national survey of fertility preservation in clinical practice across the United Kingdom in paediatric oncology specialist centres amongst under 18 year olds with cancer

Hannah Newton^a, Amanda Friend^a, Catherine Hayden^b, Roderick Skinner^c, Helen Picton^a and Adam Glaser^d

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P236 Developing a core definition set for future infertility research and reporting: an international consensus development study

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P239 Does the Endometrial Receptivity Array test improve pregnancy rates in patients with recurrent implantation failure?

Victoria Chinn, Megan Newberry and Jolly Joy

CARE Manchester, UK

P240 Patients with AMH AFC discordance in IVF, which is the best to predict ovarian response AMH or AFC in patient with Discordant AMH AFC results in IVF

Alaa Abdulah^a, Nick Raine-Fenning^b and Lucasz Polanski^b

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P241 Embryo quality, morphokinetics and clinical pregnancy outcomes: a comparison between three different gamete/embryo single-step culture media

Hannah Williams^a, Michael Carroll^b and Ellen Drew^a

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P244 Defining the immune-epithelial IL-17 axis in the endometrium

Fiona Reidy^a, Federica Giangrazi^b, Roisin Kavanagh^b, Mary Wingfield^a, Cliona O'Farrelly^b and Louise Glover^c

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P245 Natural vs medicated frozen embryo transfer: biochemical pregnancy rate

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