Wednesday 8 January  SRF SATELLITE DAY

13.00 Early registration opens, refreshments

   • Behind the scenes of Reproduction Journal
   • Getting your paper into the best Journal
   • Thinking about impact
   • Interview panel with academics

15.10-16.05 SRF Post Doctoral Prize Session
   Chairs: Mark Fenwick, Lecturer in Reproductive & Developmental Medicine, University of Sheffield, UK & Suman Rice, Reader in Reproductive Physiology, St George's University of London, UK
   15.10 TGFb/SMAD Signaling regulates granulosa cell proliferation and TZP generation during early follicular development – Sofia Granados Aparici, McGill University, Montreal, Canada
   15.25 Differential follicle stimulating hormone glycosylation modulates follicle growth and survival rates – Gillian Johnson, Kings College London, UK
   15.40 Exploration of Chemerin System in Human Granulosa Cells: involvement in Polycystic Ovarian Syndrome – Anthony Estienne, Centre Val de Loire, France
   15.55 Aberrant Igf2-H19 expression in the placental endocrine zone increases the susceptibility of the mother to poor metabolic health – Jorge Lopez-Tello, University of Cambridge, UK

16.10 The impact of paternal diet on male reproductive physiology and fetal development in mice – Hannah L Morgan, University of Nottingham, UK

16.25-16.45 Refreshments and comfort break

16.45-17.15 SRF- SRB Exchange Lecture: Epididymal CRISPs regulates efficient flagellar waveform and optimal sperm function – Avinash Gaikwad, PhD Student, School of Biological Sciences, Monash University, Australia

17.15-17.45 SRF/SSR New Investigator Lecture: The aging ovarian microenvironment: stromal fibrosis, inflammation, and the hyaluronan matrix – Francesca E. Duncan, PhD, Northwestern University, Chicago, USA

17.45-18.15 SRF/SSR New Investigator Lecture UK: Mechanisms of endometrial repair and regeneration – Douglas Gibson, Postdoctoral Research Fellow, University of Edinburgh, UK

18.15-18.45 Reproduction Journal Prize Lecture: Long-term exposure to very low doses of bisphenol S affects female reproduction – Jan Nevoral, Biomedical Center, Faculty of Medicine in Pilsen, Czech Republic

19.00 Evening programme

Thursday 9 January  Global and Environmental

08.15 Registration, refreshments, exhibition and poster viewing

09.35 OPENING PLENARY SESSION 1
   Chair’s opening remarks - Richard Lea, Reader in Reproductive Biology, School of Veterinary Medicine, Nottingham University Hospital, UK
   09.40 Fertility and reproduction: recent trends and uncertain future - Tomas Sobotka, Research Group Leader (Fertility and Family), Vienna Institute of Demography, Austria
   10.10 Where does reproductive science fit into “big picture” conservation - Bill Holt, Visiting Professor, Academic Unit of Reproductive and Developmental Medicine, University of Sheffield, UK
   10.40 Ecotoxicology in the Arctic: One health one fertility - Christian Sonne, Professor of Wildlife Population Health, Aarhus University, Denmark

11.10 Refreshments and exhibition
   Attended poster presentations and poster judging, odd numbers
## Chair's Welcome

### SRF/SSR New Investigator Lecture UK: Mechanisms of endometrial repair and regeneration

**10.10**
Chair's opening remarks

**10.40**
Fertility and reproduction: recent trends and uncertain future

**11.15**
ECOTOXICOLOGY IN THE ARCTIC: ONE HEALTH, ONE FERTILITY

**11.30**
*Enhancing the patient treatment experience and improving communication and adherence by means of a digital platform*

**13.00**
Lunch, exhibition and poster viewing

**14.45**
Analysis of 7810 consecutive counselling sessions: Deploying online technologies to improve access to care

**14.45**
Analysis of lifestyle factors which may influence sperm maturity levels

**14.45**
An analysis of the follicular steroid metabolome

**15.00**
Mental health aspects related to male infertility - are men being overlooked?

**15.15**
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

**15.40**
ICSI does not increase the odds of adverse perinatal outcomes in the absence of male factor subfertility: analysis of 131,686 singleton live births

**15.45**
*UK fertility clinics need to improve emotional support to patients undergoing IVF treatment*

**16.00**
*Enhancing the patient treatment experience and improving communication and adherence by means of a digital platform*

## Programme

### Parallel Short Paper Sessions 1

**13.00**
Lunch, exhibition and poster viewing

**14.00**
Expanding the follicular steroid metabolome

**14.00**
Exploring the follicular steroid metabolome

**14.15**
Ex vivo oocyte retrieval following controlled ovarian hyperstimulation at the time of bilateral salpingo-oophorectomy

**14.30**
An analysis of lifestyle factors which may influence sperm maturity levels

**14.45**
blastocyst quality is compromised in embryos presenting longer duration of compaction and direct cleavage

**15.00**
Investigating the effects of open and closed vitrification devices on mitochondria in human oocytes

**15.15**
Obstetric outcomes following donor egg IVF

### ACE Pre-Reg Short Papers Jean Purdy Prize

**14.00**
Exploring the follicular steroid metabolome

**14.15**
Ex vivo oocyte retrieval following controlled ovarian hyperstimulation at the time of bilateral salpingo-oophorectomy

**14.30**
An analysis of lifestyle factors which may influence sperm maturity levels

**14.45**
Blastocyst quality is compromised in embryos presenting longer duration of compaction and direct cleavage

**15.00**
Investigating the effects of open and closed vitrification devices on mitochondria in human oocytes

**15.15**
Obstetric outcomes following donor egg IVF

### SPIA

**14.00**
Reproductive and perinatal outcomes using cryopreserved oocytes: an analysis of the HFEA database from 2010 to 2016 using three clinical models

**14.15**
Metabolic profiling to identify potential targets to improve the ovarian reserve

**14.30**
Agonist trigger does not confer a disadvantage in cycles where supraphysiological oestradiol levels are reached

**14.45**
Kisspeptin and neurokinin B interactions in modulating gonadotropin secretion in women with PCOS

**15.00**
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

**15.15**
ICSI does not increase the odds of adverse perinatal outcomes in the absence of male factor subfertility: analysis of 131,686 singleton live births

### SPIB

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### SPIC

**14.00**
Analysis of 7810 consecutive counselling sessions: Deploying online technologies to improve access to care in a multi-location clinical setting

**14.15**
Mental health aspects related to male infertility - are men being overlooked?

**14.30**
*Oestradiol concentrations at the time of triggering in Letrozole-IUI cycles are predictive of subsequent clinical pregnancy*

**14.45**
*UK fertility clinics need to improve emotional support to patients undergoing IVF treatment*

**15.00**
*Enhancing the patient treatment experience and improving communication and adherence by means of a digital platform*
**SCIENTIFIC PROGRAMME**

**SPID**

**SRF PHD STUDENT PRIZE**

*Chairs: Bob Robinson, Assistant Professor in Reproductive Physiology and Pharmacology, University of Nottingham, UK & Amanda Sterruzzi-Perrin, Lecturer in Physiology, University of Cambridge, UK*

- 14.00 Oocytes mount a delayed DNA damage response involving APC-Cdhi mediated proteolysis - Goutham Narayanan Subramanian, PhD Student, University of Queensland, Australia
- 14.15 Metabonomic analysis of mouse embryos to assess the impact of culture using uterine cell-conditioned media in a microfluidic device - Vanessa Mancini, PhD Student, University of Leeds, UK
- 14.30 Methionine, one-carbon metabolism and bovine preimplantation embryo development - Constance Clare, PhD Student, The University of Nottingham, UK
- 14.45 The effect of age on oocyte energy metabolism and mitochondrial activity and copy number in sheep oocytes, cumulus cells and peripheral blood - Keerthi Gnanaprabha, PhD Student, University of Leeds, UK
- 15.00 Evolutionary conserved conceptus-derived proteins CAPG and P4HB elicit a transcriptional response in human & bovine endometrial cells that may facilitate implantation - Haidee Tinning, PhD Student, University of Leeds, UK
- 15.15 Developmental programming of porcine muscle progenitor cell fate by foetal growth restriction (FGR) - Yennifer Cortes, PhD Student, The Roslin Institute, UK
- 15.30 Exhibition, refreshments and poster viewing
- 15.35 **DEMO ZONES**
  - Cooper Surgical - How the PGTaI 2.0 platform gives you greater clinical confidence in identifying euploid embryos for transfer - Tony Gordon, VP, Global Genomics Business Development, CooperSurgical
- **UPDATE SESSION 1**
  - **IVF in a changing world: Emerging technologies and techniques for all**
    *Chairs: Raj Mathur, Consultant Gynaecologist, Clinical Lead for Reproductive Medicine, St Mary’s Hospital, Manchester, UK and Ian Aird, Consultant Obstetrician and Gynaecologist, Gateshead Health NHS Foundation Trust, UK*
    - Segmented IVF - time to rethink? - Abha Maheswari, Director, Aberdeen Fertility Centre, UK
    - Embryo-endometrial cross talk: How can we mediate the conversation? - Nick Macklon, Medical Director, London Women’s Clinic, Affiliate Professor, University of Copenhagen, Denmark

**UA1**

**CLINICAL**

- **REPRODUCTION AT 60**
  *Chairs: Greg Fitzharris and Chris Price, Co-Editors in Chief, Reproduction Journal, UK*
  - Unlocking oocyte biology over 60 years - John Carroll, Director, Biomedicine Discovery Institute, Monash University, Australia
  - Environment determinants of the embryonic programme: Implications for parental nutrition and assisted reproduction - Kevin Sinclair, Professor of Developmental Biology, University of Nottingham, UK
  - Genetics of female infertility: Past, present and future - Karen Schindler, Associate Professor, Department of Genetics, Rutgers, The State University of New Jersey, USA
  - Understanding uterine function for fertility, food and health - Niamh Forde, University Academic Fellow and Principal Investigator, Leeds, UK

**UA2**

**SCIENCE**

- **DOHaD work - Risk associated with extended culture** - Peter Ruane, Research Fellow, University of Manchester, UK
- **Emerging risks in embryology**
  *Chairs: Virginia Bolton, Consultant Embryologist, Guy’s Hospital Assisted Conception Unit, UK and Adam Watkins, Assistant Professor in Reproductive Biology, University of Nottingham, UK*
  - DOHaD work - Risk associated with extended culture - Peter Ruane, Research Fellow, University of Manchester, UK
  - Is misleading research the real risk to embryology? - Jack Wilkinson, Presidential Fellow, Centre for Biostatistics, University of Manchester, UK
  - Long term effects of ART: lessons from animal models - Pascale Chavatte-Palmer, Deputy Research Unit Director, French National Institute for Agricultural Research, INRA, Jouy en Josas, France
SCIENTIFIC PROGRAMME

UID

NURSING AND COUNSELLING

Transgender
Chair: Helen Kendrew, Clinic Director, CARE Bath, UK
Fertility and reproductive issues for trans and non-binary people - Lucy Evans, Endocrine Clinical Nurse Specialist, Tavistock & Portman Clinic, UK
Funding transgender fertility treatment - James Barrett, Lead Clinician, Tavistock & Portman Clinic, UK
Human capital: Staff training and support in this changing world - Debbie Evans, Director of Clinical Services, Herts & Essex Fertility Centre, UK

17.50 - 19.00 Welcome wine reception in exhibition
Opportunity to meet with poster presenters

18.15 Merck Symposium
Controlled ovarian stimulation and personalisation, what are the options - Nick Raine-Fenning, Medical Director, Nurture Fertility, UK & Robert Fischer, Reproductive Endocrinologist, Medical Director, MVZ Fertility Center Hamburg, Germany

LogixX Fertility Portfolio

LensHooke™ The World’s smallest user-friendly computed-aided quality semen analyser that can quickly determine all of the critical semen quality parameters such as pH, Sperm Count, Sperm concentration, Motility and Morphology.

MOXSYS™ is a rapid advanced diagnostic semen analysis test that accurately measures oxidative-reductive (ORP) stress in human semen.

Proxeed - high-quality fertility supplements specifically designed to support healthy gamete development and maximise a couple’s chances of becoming pregnant.

ZyMat™ Sperm Separation Device has been designed and are innovative lab tools that efficiently isolate the healthiest, rapidly progressive sperm, to help achieve the best possible outcomes for use in ART (Assisted reproductive techniques).


LogixX Pharma Solutions Ltd, Abbey House, 1650 Arlington Business Park, Theale, Berkshire. RG7 4SA
Friday 10 January Sociological

07.45 Registration, refreshments, exhibition and poster viewing

07.50-08.50 Guerbert Symposium
Anne Hemingway, Imperial College NHS Trust, London, UK, Velja Mijatovic, Amsterdam University Medical Centre, The Netherlands and Colin Duncan, The University of Edinburgh, UK

PLENARY SESSION 2
Chair: Karen Schnauffer, Programme Chair, Association of Clinical Embryologists, UK

09.00 Elective egg freezing: Socio-demographic factors underlying an emerging global trend - Marcia Inhorn, Professor of Anthropology and International Affairs, Council on Middle East Studies, Yale University, USA
09.30 New ways to grow a human - Philip Ball, former Editor of Nature, Science Writer, UK
10.00 DNA testing fallout. The end of donor anonymity? - Guido Pennings, Professor, Faculty of Medicine and Pharmaceutical Sciences, Free University Brussels, Belgium

10.30 Refreshments and exhibition

Attended poster presentations and poster judging, even numbers

DEMO ZONE

10.35 Cooper Surgical – Implementing RI Witness RFID in CARE Fertility - Louise Best, Group Embryology Support and Improvement Lead, CARE Fertility
11.00 Gedeon – IVF simulator educational training session: guided embryo transfer - Saeed Kahn, Consultant Business Manager, Gedeon Richter UK LTD

11.30 The Patrick Steptoe Memorial Lecture
Chairs: Jane Stewart, Consultant in Reproductive Medicine and Gynaecology, The Newcastle upon Tyne Hospitals and Chair of the British Fertility Society
Tim'rous beasties an’ fellow-mortals: Reproductive technologies in the 21st century - Andy Greenfield, Programme Leader, MRC Harwell Institute, Cambridge, UK

12.20 Association of Reproductive and Clinical Scientists (ARCS) AGM
(Incoporating last ACE AGM)
12.20 Society for Reproduction and Fertility AGM including the Marshall Medal - Professor Marilyn Rentree, Australia
12.20 British Fertility Society AGM

13.20 Lunch, exhibition and poster presentations viewing

DEMO ZONE

14.00 Cooper Surgical – How the PGTai 2.0 platform gives you greater clinical confidence in identifying euploid embryos for transfer - Tony Gordon, VP, Global Genomics Business Development, CooperSurgical

14.20 PARALLEL SHORT PAPER SESSIONS 2

SP2A ACE POST REG SHORT PAPERS
Chairs: Jason Kasraie, Shrewsbury & George Hughes, Glasgow Royal, ACE Executive members

14.20 Developing an IVFICSI success prediction test based on the vaginal microbiome - Jonathan de Jonge, Chief Operating Officer, ARTPred, Netherlands
14.35 Volatile organic compounds: Does CE marking fail the smell test? - Sophie Jaques, Senior Clinical Embryologist, Hewitt Fertility Centre Knutsford, UK
14.50 Cell fusion in the preimplantation human embryo is not associated with a significantly decreased live birth rate - Natalie Davis, Senior Embryologist, CARE Fertility Northampton, UK
15.05 The Geri time-lapse incubator significantly improves multiple IVF laboratory outcomes compared to conventional benchtop incubation - Andrew Thomson, Laboratory Manager, London Women’s Clinic Wales and Bristol, UK
15.20 Optimising FET outcome: The effect of post-warm blastocyst re-expansion and time to embryo transfer - Rebecca King, Embryologist, Wales Fertility Institute, UK
15.35 ACE/SIRT Exchange prize: Filaments: An investigation and characterisation of the novel observation of filaments produced during the first mitotic division - Casey Dean, Embryologist, Number One Fertility, Melbourne, Australia
## SCIENTIFIC PROGRAMME

### SP2B ASSISTED CONCEPTION

**Chair:** Harish Bhandari, Consultant Gynaecologist and Subspecialist in Reproductive Medicine and Surgery, Leeds Teaching Hospitals NHS Trust

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>14.20</td>
<td>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?</td>
<td>Mara Kotrotsou, Consultant in Reproductive Medicine, Apricity, UK</td>
</tr>
<tr>
<td>14.35</td>
<td>Higher ongoing pregnancy rates when blastocysts with excluded cells are transferred in frozen compared to fresh cycles</td>
<td>Jennifer Nisbett, Senior Clinical Embryologist, Bristol Centre for Reproductive Medicine, UK</td>
</tr>
<tr>
<td>14.50</td>
<td>Ovarian hyperstimulation syndrome - an underreported complication?</td>
<td>Hannah Rosen O’Sullivan, Obstetrics and Gynaecology ST2, St Helier Hospital, UK</td>
</tr>
<tr>
<td>15.05</td>
<td>Elective freeze all (segmentation) results in higher clinical pregnancy rates in women with high AMH</td>
<td>Marco Gaudoin, Medical Director, GCRM Fertility, UK</td>
</tr>
<tr>
<td>15.20</td>
<td>Endometrial assessment and personalised plan in the treatment of unexplained repeated embryo implantation failure: one-year experience</td>
<td>Mona Rahmati, Consultant in Reproductive Medicine, London Women’s Clinic, UK</td>
</tr>
<tr>
<td>15.35</td>
<td>Protective effects of omega-3 fatty acids on cyclopodiphosphamide induced fertility alterations</td>
<td>Emmanuel Nnamonu, Lecturer, Federal College of Education, Eha-Amufu, Enugu State Nigeria</td>
</tr>
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### SP2C FEMALE REPRODUCTIVE TRACT

**Chairs:** Amanda de Mestre, Reader in Reproductive Immunology, RVC, London, UK and Nick Wheelhouse, Lecturer in Microbiology, Edinburgh Napier University, UK

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<tr>
<th>Time</th>
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<tr>
<td>14.20</td>
<td>Dynamic properties of endometrial macrophages regulate tissue homeostasis in the uterus</td>
<td>Elizabeth Mann, Research Fellow, University of Manchester, UK</td>
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<tr>
<td>14.35</td>
<td>Can we detect endometrial markers of hypoxia in women using Magnetic Resonance Imaging (MRI) to improve management of heavy menstrual bleeding (HMB)?</td>
<td>Jane Reavey, MD Student, MRC Centre for Reproductive Health, University of Edinburgh, UK</td>
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<td>14.50</td>
<td>The role of GW4869 in extracellular vesicles (EVs) biogenesis and its effect on embryo-endometrial implantation</td>
<td>Norhayati binti Liaquat Ali Khan, PhD Student, Academic Unit of Reproductive and Developmental Medicine Department of Oncology &amp; Metabolism, Sheffield, UK</td>
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<td>15.05</td>
<td>Anterior gradient protein 3 in the reproductive tract and fertility</td>
<td>Nicola Tempest, Clinical Research Fellow, Liverpool Women’s Hospital, UK</td>
</tr>
<tr>
<td>15.20</td>
<td>Tight junction decoupling from actomyosin in receptive endometrial epithelium is regulated by protein Oct-1</td>
<td>Eva Shermerdine, SRF Vacation Scholarship Recipient, Faculty of Biology Medicine and Health, University of Manchester, UK</td>
</tr>
<tr>
<td>15.35</td>
<td>Cystic ovary disease (COD) impairs functional morphology of the bovine oviduct</td>
<td>Deirdre Scully, Anatomy Teaching Fellow, University College Dublin, Ireland</td>
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### SP2D EMBRYO DEVELOPMENT

**Chairs:** Kevin Sinclair, Professor of Developmental Biology, University of Nottingham, UK and Richard Lea, Reader in Reproductive Biology, School of Veterinary Medicine, Nottingham University Hospital, UK

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<tr>
<td>14.20</td>
<td>Cytokinesis in early mouse embryo</td>
<td>Filip Vasilyev, Postdoc, Centre de Recherche du Centre Hospitalier de l’Université de Montréal (CRCHUM), Canada</td>
</tr>
<tr>
<td>14.35</td>
<td>The metabolic and developmental impact of microfluidic culture on preimplantation bovine embryo development invitro</td>
<td>Paul McKeegan, Lecturer in Human Physiology, Hull York Medical School, UK</td>
</tr>
<tr>
<td>14.50</td>
<td>Effects of different infra-red laser-assisted hatching (LAH) protocols on pre-implantation mouse embryos and embryo attachment</td>
<td>Yaqing Liu, PhD Student, University of Oxford, UK</td>
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<td>15.05</td>
<td>Sex sorting of bovine sperm leads to compromised development of the early embryo</td>
<td>Heather Steele, PhD Student, University College Dublin, Ireland</td>
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<td>15.20</td>
<td>Ranking Intelligence Classification Algorithm (ERICA): a deep learning-based clinical assistant for blastocysts selection</td>
<td>Andrew Drakeley, Clinical Director, Hewitt Centre, Liverpool, UK</td>
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<td>15.35</td>
<td>Non-invasive chromosome screening reveals high concordance rate when using MALBAC technique for whole genome amplification for preimplantation genetic testing for aneuploidies</td>
<td>Xavier Virals Gonzalez, Senior Clinical Embryologist, The Centre for Reproductive and Genetic Health, UK</td>
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### SP2E OVARY & FOLLICULOGENESIS

**Chairs:** Suzanneh Williams, Lead for Oxford Future Fertility Trust, University of Oxford, UK and Nick Rainie Fenning, Medical Director, Nurture Fertility, UK

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<tr>
<td>14.20</td>
<td>Ovarian INS13 acts as a feedforward drive promoting the growth and steroidogenesis of healthy antral follicles</td>
<td>Ravinder Anand-Ivell, Associate Professor Endocrinology and Reproductive Physiology, University of Nottingham, UK</td>
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<td>14.35</td>
<td>The role of vascular androgen receptors in both follicle development and ovarian hyperstimulation syndrome</td>
<td>Joanne Murray, Senior Lecturer, University of Oxford, UK</td>
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<td>14.50</td>
<td>Does basal antral follicle count correlate with number of oocytes collected</td>
<td>Dimitrios Mavrelis, Consultant, Reproductive Medicine Unit, UCL, UK</td>
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<tr>
<td>15.05</td>
<td>NLRP3 inflammasomeactivationinovarianreserveservativespatients</td>
<td>Carolina Andres, Clinica Tambre, Spain</td>
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<tr>
<td>15.20</td>
<td>The effect of Functional zone IGF-2 deletion on the reproductive function of female offspring</td>
<td>John Louca, Student, Cambridge University, UK</td>
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<td>15.35</td>
<td>Unravelling the naked mole rat ovary: a comparison between the queen and the worker</td>
<td>Yvonne Clarkson, Postdoctoral Research Associate, The University of Edinburgh, UK</td>
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<tr>
<td>15.50</td>
<td>Exhibition, refreshments and poster viewing</td>
<td>MOFFAT</td>
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<td>15.55</td>
<td><strong>DEMO ZONE</strong>&lt;br&gt;Cooper Surgical – Novel strategies to prevent miscarriage - Scott Nelson, Muirhead Chair in Obstetrics and Gynaecology, University of Glasgow</td>
<td>SIDLAW</td>
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<td>16.30</td>
<td><strong>UPDATE SESSION 2</strong></td>
<td>FINTRY</td>
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<td>16.30-18.00</td>
<td><strong>U2A CLINICAL</strong>&lt;br&gt;Chair: Ian Aird, Consultant Obstetrician and Gynaecologist, Gateshead Health NHS Foundation Trust, UK&lt;br&gt;Physiology of the corpus luteum: The science of luteal support - Colin Duncan, Professor of Reproductive Medicine and Science, MRC Centre for Reproductive Health, The University of Edinburgh, UK&lt;br&gt;What’s new in luteal support - Mostafa Metwally, Consultant Gynaecologist and Subspecialist in Reproductive Medicine and Surgery, Jessop Wing, Royal Hallamshire Hospital, Sheffield, UK&lt;br&gt;Progesterone for prevention of miscarriage - Arri Coomarasamy, Professor of Gynaecology, Institute of Metabolism and Systems Research, University of Birmingham, UK</td>
<td>PENTLAND</td>
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<td>16.30-18.00</td>
<td><strong>U2B SCIENCE</strong>&lt;br&gt;Chair: Adam Watkins, Assistant Professor in Reproductive Biology, Faculty of Medicine &amp; Health Sciences, The University of Nottingham and Rebecca Sumner, Lecturer in Equine Science, Hartpury University, UK&lt;br&gt;Reproductive function in a polluted world: Lessons from animal models - Richard Lea, Reader in Reproductive Biology, School of Veterinary Medicine, University of Nottingham, Sutton Bonington Campus, UK&lt;br&gt;Endocrine disruptors, pregnancy and birth outcomes - Vasantha Padmanabhan, Professor, Departments of Pediatrics; Obstetrics &amp; Gynaecology, University of Michigan, USA&lt;br&gt;The influence of a hyperandrogenic environment in early life and susceptibility to adult disease - Kirsty Walters, Senior Lecturer, Ovarian Biology Laboratory, University of New South Wales Sydney, Australia</td>
<td>KILSYTH</td>
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<td>16.30-18.00</td>
<td><strong>U2C EMBRYOLOGY</strong>&lt;br&gt;Chairs: Rebecca Swann, Clinical Embryologist, The Evewell, UK and Karen Thompson, Lead Embryologist, Leeds Fertility, UK&lt;br&gt;Artificial Intelligence and machine learning - for embryo selection - Marcos Meseguer, Senior Embryologist, IVI Valencia, Spain&lt;br&gt;Microfluidics for assisted reproductive technologies - Séverine Le Gac, Professor, University of Twente, Netherlands&lt;br&gt;Human spermbots for cancer-relevant drug delivery - Christine Schmidt, BBSRC David Phillips Fellow, Division of Cancer Sciences, The University of Manchester, UK</td>
<td>CROMDALE</td>
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### Saturday 11 January Technological

8.30  Registration, exhibition, refreshments and poster viewing

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<tr>
<th>Time</th>
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<tr>
<td>09.00</td>
<td>PLENARY SESSION 3</td>
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<td>Chair: Ian Aird, Consultant Obstetrician and Gynaecologist, Gateshead Health NHS Foundation Trust</td>
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<td>The feasibility and associated risks of germline editing - Ben Davies, Associate Professor, Wellcome Centre for Human Genetics, University of Oxford, UK</td>
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<td>09.30</td>
<td>Microbiomes, reproductive health and fertility - Jacques Ravel, Professor of Microbiology, University of Maryland, USA</td>
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<td>10.00</td>
<td>FNUK update - Glenda Burns, Chief Executive, Fertility Network</td>
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<td>10.10</td>
<td>Bob Edwards Memorial Lecture</td>
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<td>Chair: Jason Kasraie, Consultant Clinical Embryologist &amp; Andrologist, The Shropshire and Mid Wales Fertility Centre, UK</td>
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<td>‘Reproductive Scientists - the good, the bad and the ugly’ - Steve Troup, President, Association of Clinical Embryologists, UK</td>
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<td>11.00</td>
<td>Exhibition and refreshments</td>
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#### 11.30-12.30 PARALLEL SHORT PAPER SESSIONS 3

**SP3A**

**OOCYTES, EMBRYOS AND IMPLANTATION FAILURE**

Chair: Mostafa Metwally, Consultant Gynaecologist and Subspecialist in Reproductive Medicine and Surgery, Jessop Wing, Royal Hallamshire Hospital, UK and Marta Jansa Perez, Director of Embryology, British Pregnancy Advisory Service, UK

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<tr>
<td>11.30</td>
<td>BFS FSA EXCHANGE PRIZE Differences in 2-cell and 4-cell embryo quality in relation to sperm developmental status as assessed by time-lapse technology - Hassan Bakos, Scientific Director NSW, Monash IVF, Australia</td>
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<td>11.45</td>
<td>Live birth and perinatal outcomes in Recurrent Implantation Failure: an analysis of 1,376,454 cycles from the Human Fertilisation and Embryology Authority database spanning 1991 to 2016 - William Smith, Clinical Research Fellow, Leeds Fertility, UK</td>
</tr>
<tr>
<td>12.00</td>
<td>The ovaries of transmen indicate effects of testosterone on the primordial follicle pool - Emily Bailie, Clinical Research Fellow, University of Edinburgh, UK</td>
</tr>
<tr>
<td>12.15</td>
<td>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, MRes Student, Edgehill University, UK</td>
</tr>
</tbody>
</table>

**SP3B**

**ENVIRONMENTAL INFLUENCES ON METABOLIC AND REPRODUCTIVE HEALTH**

Chair: Doug Gibson, Postdoctoral Research Fellow, University of Edinburgh, UK and Vasantha Padmanabhan, Professor, University of Michigan, USA

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
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<tbody>
<tr>
<td>11.30</td>
<td>Male liver dysfunction as a consequence of prenatal androgen excess - Jennifer Thomas, PhD Student, Edinburgh Napier, UK</td>
</tr>
<tr>
<td>11.45</td>
<td>Placenta endocrine malfunction programmes adult offspring metabolic health in a sex-dependent fashion - Eththima Christoforou, Student, University of Cambridge, UK</td>
</tr>
<tr>
<td>12.00</td>
<td>Assessing the impact of paternal diet on testicular morphology and gene expression in mice - Nadler Eid, PhD Candidate, University of Nottingham, UK</td>
</tr>
<tr>
<td>12.15</td>
<td>Effect of environment and diet on semen quality in man and canines - David Gardner, Professor of Physiology, University of Nottingham, UK</td>
</tr>
</tbody>
</table>

**SP3C**

**EMBRYONIC DEVELOPMENT AND METABOLISM**

Chair: Karen Thompson, Lead Embryologist, Leeds Fertility, UK

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
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<tbody>
<tr>
<td>11.30</td>
<td>Changes in metabolic profiles of blood plasma and blastocyst cavity fluid in response to maternal diabetes during early pregnancy - Maria Schindler, PostDoc, Institute of Anatomy and Cell Biology, Halle, Germany</td>
</tr>
<tr>
<td>11.45</td>
<td>Embryo Aneuploidy screening in inner-cell mass and trophectoderm lineages of bovine blastocysts derived from stimulated and non-stimulated ovarian cycles - Kevin Sinclair, Professor of Developmental Biology, University of Nottingham</td>
</tr>
<tr>
<td>12.00</td>
<td>Minimising miscarriage in ART: IVF or ICSI-derived euploid blastocysts - Zoya Enakshi Ali, Student, University College London, UK</td>
</tr>
<tr>
<td>12.15</td>
<td>Hyaluronidase-2 changes morphokinetics of in vitro cultured bovine embryos - Ali Fouad-Nashta, Royal Veterinary College, London, UK</td>
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### SCIENTIFIC PROGRAMME

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Chair/Presenter</th>
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</thead>
<tbody>
<tr>
<td>11.30</td>
<td>SP3D</td>
<td>Reproductive Endocrinology</td>
<td>Chair: David Miller, Reader in Molecular Andrology, University of Leeds, UK</td>
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<td></td>
<td></td>
<td>Immunological stress during development might delay pubertal onset through altering gene regulation in GnRH-neurons</td>
<td>Sarai Keestra, Student, University of Oxford, UK</td>
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<tr>
<td>11.45</td>
<td></td>
<td>Plasma profile of follicle-stimulating hormone after a single epidural administration via caudal vertebrae in cattle</td>
<td>Kenichiro Sakaguchi, Sponsored Researcher, Institute of Cell Biology and Genes and Development Group, The University of Edinburgh, UK</td>
</tr>
<tr>
<td>12.00</td>
<td></td>
<td>The effects of FSHR positive allosteric modulator on FSH dependent FSHR homomerisation and signal pathway activation</td>
<td>Uche Aguweugo, PhD Research Student, King's College London, UK</td>
</tr>
<tr>
<td>12.15</td>
<td></td>
<td>Effects of grape seed extracts on reproductive parameters in broiler breeder hens</td>
<td>Anthony Estienne, Postdoc, Institut National de la Recherche Agronomique, France</td>
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<tr>
<td>12.30</td>
<td></td>
<td>Lunch, exhibition and poster viewing</td>
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<tr>
<td>13.30</td>
<td>U3A</td>
<td>Future challenges</td>
<td>Chair: Stuart Lavery, Consultant in Gynaecology, Reproductive Medicine and Surgery and Director of IVF Unit, Imperial College Healthcare, UK</td>
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<tr>
<td></td>
<td></td>
<td>Regulating innovation in a changing world</td>
<td>Peter Thompson, Chief Executive, HFEA, UK</td>
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<td>Metabolic approaches to treating male fertility</td>
<td>Channa Jayasena, Clinical Senior Lecturer in Endocrinology, Imperial College London and Hammersmith Hospital, UK</td>
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<tr>
<td>12.30</td>
<td></td>
<td>午休，展览和海报查看</td>
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<tr>
<td>13.30</td>
<td>U3B</td>
<td>Reproductive challenges of animal conservation</td>
<td>Chair: Suzannah Williams, Lead for Oxford Future Fertility Trust, University of Oxford, UK</td>
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<td></td>
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<td>Fertility preservation in wild and domestic species</td>
<td>Pierre Comizzoli, Staff Scientist, Department of Reproductive Sciences, Center for Species Survival, Smithsonian's National Zoological Park, Washington DC, USA</td>
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<td>Bringing back the white rhino using frozen sperm</td>
<td>Robert Hermes, Professor, Leibniz Institute for Zoo &amp; Wildlife Research, Berlin, Germany</td>
</tr>
<tr>
<td>12.30</td>
<td>U3C</td>
<td>Nurses’ role in fertility diagnostics</td>
<td>Chair: Yvonne Weddon, Sister, Birmingham Women’s Fertility Centre, UK</td>
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<td></td>
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<td>Discovering Diagnostics; the fertility nurse’s role</td>
<td>Amanda Cook, Senior Fertility Nurse, The Centre for Reproductive and Genetic Health, London, UK</td>
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<td>The role of ultrasound in infertility management – a nurse perspective</td>
<td>Jane Mutch, Matron, The Hewitt Fertility Centre, UK</td>
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<td>14.35</td>
<td>U3A</td>
<td>Debate: This house believes in legalising genetic enhancement of humans</td>
<td>Raj Mathur, Consultant Gynaecologist, Clinical Lead for Reproductive Medicine, St Mary’s Hospital, UK</td>
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<tr>
<td>14.40</td>
<td></td>
<td>For: Helen O’Neill, Lecturer in Reproductive Medicine and Genetics, University College London, UK</td>
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<td>14.50</td>
<td></td>
<td>Against: Felicity Boardman, Associate Professor, WMS - Social Science and Systems in Health, University of Warwick, UK</td>
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<td>15.00</td>
<td></td>
<td>Audience discussion and questions</td>
<td>Jane Stewart, Chair, British Fertility Society, UK</td>
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<tr>
<td>15.15</td>
<td></td>
<td>Money, myths &amp; man-eaters: Lion conservation in Tanzania and beyond</td>
<td>Amy Dickman, National Geographic Explorer, Kaplan Senior Research Fellow in Field Conservation, Wildlife Conservation Research Unit and Pembroke College, Oxford University, UK</td>
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<td>15.45</td>
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<td>Prize giving</td>
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<td>16.00</td>
<td></td>
<td>Closing remarks</td>
<td>Jane Stewart, Chair, British Fertility Society, UK</td>
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