2013 Postgrad/Doc Symposium: Careers: The next step

Reddaway Room

Chairs:
Fiona Connolly (University of Edinburgh, United Kingdom)
Vicky Young (University of Edinburgh, United Kingdom)

Thursday 11 July 2013

Speakers:
11:00 - 11:30 Professor Allan McNeilly (University of Edinburgh, United Kingdom)
Careers in Academia
11:30 - 12:00 Jessica Griggs (Editor, New Scientist)
Careers in Journalism/Science Communication
12:00 - 12:30 Dr Robert Hooley (Clinical Research Associate II, Celgene)
Careers in Clinical Trials
12:30 - 13:00 Sandwich lunch for Postgrad/Doc Reps

Welcome to SRF 2013

Auditorium

Thursday 11 July 2013

Speaker:
13:00 - 13:10 Dr Robert Abayasekara (Chairman, SRF Meetings Committee, Royal Veterinary College, United Kingdom)
Introducing New Investigators, Distinguished Scientists and Marshall Medalists

Symposium 1: Contraception in the 21st Century

Auditorium

Chair:
Professor Alan McNeilly (University of Edinburgh, United Kingdom)

Thursday 11 July 2013

Speakers:
13:10 - 13:40 Professor Roger Short (University of Melbourne, Australia)
A Plague of People
13:40 - 14:10 Professor John Aitken (University of Newcastle, Australia)
Dual Purpose Contraceptives: targeting fertility and sexually transmitted disease

14:10 - 14:40 Dr Jeffrey Jensen *(Oregon Health and Science University, U.S.A.)*
Tomorrow’s contraceptive agents; new approaches and more choice

14:40 - 15:10 Dr Anna Glasier *(University of Edinburgh, United Kingdom)*
Contraception in the 21st Century: Contraceptive practice and clinical outcomes

15:10 - 15:30 Tea/Coffee Break
Auditorium Foyer

Post Doc Scientist Award

Auditorium

Chairs:
- Dr Franchesca Houghton *(University of Southampton, United Kingdom)*
- Dr Jon Oatley *(Washington State University, U.S.A.)*
- Dr Adam Watkins *(University of Nottingham, United Kingdom)*

Thursday 11 July 2013

Speakers:
15:30 - 15:50 Alison Wallace *(St George’s University of London, United Kingdom)*
Decidual natural killer cell interactions with trophoblast are altered in pregnancies with impaired spiral artery remodelling

15:50 - 16:10 Hanna Schöpper *(University of Veterinary Medicine, Austria)*
Morphological parameters of guinea pig placenta after chronic gestational stress

16:10 - 16:30 Panayiotis Filis *(The University of Aberdeen, United Kingdom)*
Maternal smoking during pregnancy dysregulates protein expression in second trimester human fetal livers

Oral Session 1

Auditorium

Chairs:
- Dr Franchesca Houghton *(University of Southampton, United Kingdom)*
- Dr Victoria Cabrera-Sharp *(Royal Veterinary College, United Kingdom)*

Thursday 11 July 2013

Speakers:
16:30 - 16:50 Bernd Fischer *(Martin Luther University Halle-Wittenberg, Germany)*
Blastocysts of diabetic rabbits are fat

16:50 - 17:10 Stephanie Jane Marfy-Smith *(University of Southampton, United Kingdom)*
Does Maternal Diet At The Time Of Conception Influence Fetal Bone Development?
17:10 - 17:30 Ali Fouladi-Nashta (Royal Veterinary College, United Kingdom)
Developmental pattern of hyaluronan system and its critical role during preimplantation embryo development

17:30 - 17:50 Charmaine Green (University of Sydney and Bosch Institute, Australia)
Insulin-like growth factor 1 improves attachment of mouse blastocysts to endometrial epithelial cells in vitro

17:50 - 18:10 Connie Poon (The University of Sydney, Australia)
Nectin-3: a new potential protein player in the events of blastocyst implantation in the rat

---

**Oral Session 2**

Reddaway Room

Chairs:
- Fiona Connolly (University of Edinburgh, United Kingdom)
- Dr Jackson Kirkman-Brown (University of Birmingham, United Kingdom)

**Thursday 11 July 2013**

Speakers:

16:30 - 16:50 Ravinder Anand-Ivell (FBN Institute for Farm Animal Biology, Germany)
Insulin-like peptide 3 (INSL3) is an important new fetal biomarker of gender-specific fetal well-being with the potential to influence both placental and maternal physiology

16:50 - 17:10 Cheryl Ashworth (University of Edinburgh, United Kingdom)
Effect of pre-natal social stress on reproductive development in the post-pubertal rat

17:10 - 17:30 Beate Braun (Leibniz Institute for Zoo and Wildlife Research, Germany)
Expression of enzymes of steroid biogenesis and metabolism during testis development of the domestic cat (Felis catus)

17:30 - 17:50 Nazir Ahmad (Department of Theriogenology, University of Agriculture, Pakistan)
Effects of Asphaltum on libido, serum testosterone and certain biochemical metabolites in adult Lohi rams

17:50 - 18:10 William Breed (University of Adelaide, Australia)
Spermatozoa of Murid Rodents – their interspecific variability and evolution

---

**Poster Session 1 (even numbers)**

18:15 - 19:15 **Poster session 1 (even numbers)**

Including welcome drinks & buffet

Old Library Room 2
SRF Social Event

Punting on the River Cam and Drinks in the Private Bar of The Granta
19:30-23:00

Transfer to Punting - Buses 19:15-19:30

Thursday 11 July 2012

Symposium 2: Lipid Mediators in Reproduction

Auditorium
Chair:
Dr Tony Michael (St. George's, University of London, United Kingdom)

Friday 12 July 2013

Speakers:

09:00 - 09:30 Dr Robert Abayasekara (Chairman, SRF Meetings Committee, Royal Veterinary College, United Kingdom)
Polyunsaturated Fatty Acids (PUFAs), Prostaglandins & Steroidogenesis

09:30 - 10:00 Dr Sudhansu K Dey (University of Cincinnati, U.S.A.)
Endocannabinoid signaling in pregnancy: Lessons from mouse models

10:00 - 10:30 Dr Lynne Sykes (Imperial College London, United Kingdom)
The potential role of anti-inflammatory prostaglandins in the prevention of preterm labour

10:30 - 11:00 Dr Mark Puder (Boston Children's Hospital, U.S.A.)
Prolonging the Female Reproductive Lifespan and Improving Egg Quality with Dietary Omega-3 Fatty Acids

11:00 - 11:30 Tea/Coffee Break
Auditorium Foyer

Oral Session 3

Auditorium
Chairs:
Dr Amanda de Mestre (Royal Veterinary College, United Kingdom)
Professor Cheryl Ashworth (University of Edinburgh, United Kingdom)
Friday 12 July 2013

Speakers:
11:30 - 11:50 Katie Restall (University of Southampton, United Kingdom)
Maternal protein restriction in pregnancy affects neural stem cell proliferation in 14.5 day old mouse foetuses

11:50 - 12:10 Piotr Kaczynski (Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Poland)
Is prostaglandin F2α an important factor in porcine endometrium and conceptus during early pregnancy?

12:10 - 12:30 Victoria Cabrera-Sharp (Royal Veterinary College, United Kingdom)
BMP4 signalling in the placenta stimulates terminal differentiation of primary trophoblast cells and induces chorionic gonadotropin secretion

12:30 - 12:50 Amanda de Mestre (Royal Veterinary College, United Kingdom)
Placental trophoblast cells regulate CD4+ lymphocyte proliferation, cytokine expression and cell signalling

12:50 - 13:10 Amanda Host (St. George's, University of London, United Kingdom)
The interaction of decidual natural killer cells and vascular smooth muscle cells during spiral artery remodelling

13:10 - 13:30 Zhangrui Cheng (Royal Veterinary College, United Kingdom)
Association between serum amyloid A levels and uterine inflammation in postpartum dairy cows

---

Oral Session 4

Reddaway Room

Chairs:
Dr Suzannah Williams (University of Oxford, United Kingdom)
Dr Mazdak Salavati (Royal Veterinary College, United Kingdom)

Friday 12 July 2013

Speakers:
11:30 - 11:50 Sadanand Sontakke (Roslin Institute, United Kingdom)
Identification and characterisation of microRNAs involved in ovarian follicular development

11:50 - 12:10 Stine Kristensen (University hospital of Copenhagen, Denmark)
Gene expression analysis of five size-matched populations of isolated human preantral follicles

12:10 - 12:30 Janni Jeppesen (University hospital of Copenhagen, Denmark)
Which follicles make the most anti-Müllerian hormone in humans? Granulosa cell gene expression, follicular fluid and in vivo modelling indicate an abrupt decline in AMH production at the time of follicle selection

12:30 - 12:50 Peter Hurst (Medical School, New Zealand)
Androstenedione production and ovarian follicle characteristics following fetal androgen exposure in sheep

12:50 - 13:10 Dorit Kalo (The Hebrew University of Jerusalem, Israel)
The effect of mono-(2-ethylhexyl) phthalate on nuclear and cytoplasmic maturation in bovine oocytes
13:10 - 13:30 Pedro Melo (University of Oxford, United Kingdom)
To investigate altered cumulus expansion and oocyte-cumulus communication in a mouse model with increased fertility

SRF AGM

13:30-14:00
Auditorium
Friday 12 July 2013

13:30 - 14:30 Lunch
Old Library Room 2

SRF Student Prize and SRF Postgrad/Doc Election
Auditorium
Chairs:
Alison Wallace
Fiona Connolly
Friday 12 July 2013

Speakers:
14:30 - 14:50 Jenna Haverfield (Prince Henry's Institute of Medical Research, Australia)
Follicle stimulating hormone drives Sertoli cell tumourigenesis by regulating proliferation

14:50 - 15:10 George Liperis (Leeds Institute of Genetics and Health Therapeutics (LIGHT), United Kingdom)
The Function Of Gametocyte Specific Factor 1 (GTSF1) During Ovine Oocyte Maturation

15:10 - 15:30 Romanthi Madawala (The University of Sydney, Australia)
Caveolins 1 and 2 are redistributed in the uterus during early pregnancy and are associated with integrin β1 turnover

15:30 - 15:50 Fiona Connolly (University of Edinburgh, United Kingdom)
Effect of ovarian diathermy on vascular indices in an ovine model of polycystic ovary syndrome (PCOS)

15:50 - 16:10 Vicky Young (University of Edinburgh, United Kingdom)
Does peritoneal overexpression of Transforming Growth Factor-β in endometriosis induce epithelial to mesenchymal transition within the peritoneal mesothelium to allow ectopic endometrial cell invasion?
**Poster Session 2 (odd numbers)**

Including tea/coffee break

Old Library Room 2

Friday 12 July 2013

Speaker:

16:15 - 17:15

Poster Session 2 (odd numbers)

---

**Distinguished Scientist**

Auditorium

Chair:

Professor Paul Fowler *(SRF Chairman, University of Aberdeen, United Kingdom)*

Friday 12 July 2013

Speaker:

17:15 - 18:15 **Professor Azim Surani** *(Gurdon Institute, United Kingdom)*

Germline: The eternal link between all generations

---

**Pre Dinner Drinks – Grove Lawn**

19:00-19:45

---

**Conference Dinner**

*Fitzwilliam College Dining Hall*

19:45 onwards

---

**SSR / SRF New Investigator**

Auditorium
Chair:
Dr Robert Abayasekara (Chairman, SRF Meetings Committee, Royal Veterinary College, United Kingdom)

Saturday 13 July 2013

Speakers:
09:30 - 10:15 SSR New Investigator - Dr Jon Oatley (Washington State University, U.S.A.)
Molecular Characteristics and Regulation of Fate Determination in Male Germline Stem Cells

10:15 - 11:00 SRF New Investigator - Dr Adam Watkins (University of Nottingham, United Kingdom)
Peri-conceptional environment and offspring health

11:00 - 11:30 Tea/Coffee Break
Auditorium Foyer

Symposium 3: Laying the Foundations for Healthy Embryogenesis

Auditorium
Chair:
Dr Greg Fitzharris (University College London, United Kingdom)

Saturday 13 July 2013

Speakers:
11:30 - 12:00 Dr Jackson C Kirkman-Brown (University of Birmingham, United Kingdom)
Finding the egg! - 2x10^8 : 20 - from test tube to tract

12:00 - 12:30 Professor Joanne Richards (Baylor College of Medicine, U.S.A.)
Follicular Granulosa Cells and Fertility

12:30 - 13:00 Professor Karl Swann (Cardiff University, United Kingdom)
Starting development with Phospholipase C zeta and calcium oscillations

13:00 - 13:30 Dr Myriam Hemberger (The Babraham Institute, United Kingdom)
Regulation of early cell fate decisions and trophoblast differentiation

13:30 - 13:45 Closing remarks