



**SRF ANNUAL CONFERENCE 2013
SCIENTIFIC PROGRAMME
11-13 July 2013, Cambridge**

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 Francesca 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 Schöpfer** (*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 Francesca 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 fetuses

11:50 - 12:10 **Piotr Kaczynski** (*Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Poland*)

Is prostaglandin F2 α 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 β 1 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-conceptual 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! - 2×10^8 : 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**