



Society for  
Reproduction  
and Fertility

**SRF ANNUAL CONFERENCE 2012 SCIENTIFIC PROGRAMME**  
**9 – 12 JULY, EDINBURGH**

**Monday 9 - Wednesday 11 July 2012**

**Monday 9 July 2012**

**Postgrad/Doc Symposium - "Skills for Postgraduate Research: A Focus on Writing"**

**Prestonfield Room**

This session is free of charge to attend, please ensure that you check the appropriate box during the registration process.

**Chairs:**

Alison Wallace (*St Georges University, United Kingdom*)

Fiona Connolly (*University of Edinburgh, United Kingdom*)

**Monday 9 July 2012**

**Speakers:**

11:00 - 11:30 **Professor Tom Fleming** (*University of Southampton and Editor in Chief of SRF's Journal Reproduction*)

Writing for Journals

11:30 - 12:00 **Dr Andrew Childs** (*University of Edinburgh*)

How to give a good talk

12:00 - 12:30 **Professor Richard Sharpe** (*University of Edinburgh*)

Grant & Fellowship Applications

13:00 - 14:00 **Sandwich Lunch all Postgrad/Docs**

**SRF Council Meeting (SRF Council Members only)**

**Duddingston Room**

**12:00-14:00**

**Monday 9 July 2012**

14:00 - 14:10 **Welcome to SRF 2012 from Dr Robert Abayasekara (Chairman, SRF Meetings Committee)**  
Pentland Suite

## Symposium 1: Stem Cells in Reproduction & Development

### Pentland Suite

#### Chair:

Francesca Houghton (*University of Southampton, United Kingdom*)

**Monday 9 July 2012**

#### Speakers:

14:10 - 14:50 **Professor Neil Hanley** (*University of Manchester, United Kingdom*)  
Human embryonic development, germ cells and hormones

14:50 - 15:30 **Dr Irene Carvello** (*Valencia University, Spain*)  
Reconstruction of Endometrium from Human Endometrial Side Population Cells

15:30 - 16:10 **Professor Jonathan Tilly** (*Vincent Centre for Reproductive Biology, U.S.A.*)  
Adult Ovary-derived Oogonial Stem Cells and their Potential Utility in Human Assisted Reproduction

16:10 - 16:30 **Tea/Coffee Break, Poster Viewing & Exhibition**

## Post Doc Scientist Award

### Pentland Suite

This session is made up of 4 presentations from eligible abstract submissions.

#### Chairs:

Dr Petros Marangos (*University of Ioannina, Greece*)

Dr Derek Boerboom (*University of Montreal, Canada*)

**Monday 9 July 2012**

#### Speakers:

16:30 - 16:50 **Laura O'Hara** (*MRC/University of Edinburgh Centre for Reproductive Health, United Kingdom*)  
Conditional ablation of androgen receptor from Leydig cells results in testicular inflammation and germ cell loss

16:55 - 17:15 **Marie McLaughlin** (*University of Edinburgh, United Kingdom*)  
Metaphase II oocytes from human immature follicles grown in a multi-step culture system

17:20 - 17:40 **Caroline Dalton** (*UCL, United Kingdom*)  
Distinct cytoskeletal networks regulate mitochondrial distribution during mouse oocyte maturation

17:40 - 18:00 **Douglas Gibson** (*University of Edinburgh, United Kingdom*)  
The impact of the stromal environment on chemotaxis of uNK cells

18:00 - 19:30 **Welcome Drinks Reception & Buffet**

19:30 - 23:00 **SRF Quiz & Whisky Tasting**

## Symposium 2: Maintaining Genetic Fidelity in the Germ Line

### Pentland Suite

#### Chair:

Dr Greg Fitzharris (*Institute for Women's Health, UCL, United Kingdom*)

**Tuesday 10 July 2012**

#### Speakers:

09:00 - 09:40 **Dr Dagan Wells** (*Institute of Reproductive Sciences, United Kingdom*)

The cytogenetics of polar bodies: insights into female meiosis

09:40 - 10:20 **Dr Michael Lampson** (*University of Pennsylvania, USA*)

Chromosome segregation in meiosis: violations of Mendel's first law

10:20 - 11:00 **Dr James Turner** (*MRC National Institute for Medical Research, United Kingdom*)

Meiotic silencing and female infertility

11:00 - 11:30 **Tea/Coffee Break, Poster Viewing & Exhibition**

## Oral Session 1: Signalling in Reproduction

### Pentland East

This session is comprised of 6 presentations from abstract submissions.

#### Chairs:

Dr Erika Matunis (*Johns Hopkins University School of Medicine, USA*)

**Tuesday 10 July 2012**

#### Speakers:

11:30 - 11:45 **Carlos Hoff de Souza** (*Embrapa Pecuaria Sul, Brazil*)

Novel GDF9 polymorphism determining higher ovulation rate and litter size in sheep

11:45 - 12:00 **Dr Claire Glister** (*University of Reading, United Kingdom*)

Intra-ovarian regulation of thecal androgen production: is there a functional link between Bone Morphogenetic Protein (BMP) and Insulin-like Peptide 3 (INSL3) signalling?

12:00 - 12:15 **Martin O'Neill** (*University of Edinburgh, United Kingdom*)

Investigation of paracrine androgen signalling in the testis using multiple transgenic models highlights Peritubular Myoid cells as a key controller of androgen production by Leydig Cells.

12:15 - 12:30 **Griselda Valdez Magana** (*University of Nottingham, United Kingdom*)

FGF and BMP signalling mediate embryo-trophoblast communication to maintain coordinated growth of the pig conceptus

12:30 - 12:45 **Fiona Cousins** (*University of Edinburgh, United Kingdom*)

Regulation of VEGF by hypoxia during endometrial breakdown and early regeneration in a mouse model of menstruation.

12:45 - 13:00 **Raffaella Petruzzelli** (*University of Southampton, United Kingdom*)

Effect of environmental oxygen on the regulation of human embryonic stem cell pluripotency

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## Oral Session 2: Oocyte/Embryo

### Pentland West

This session is comprised of 6 presentations from abstract submissions.

#### Chairs:

Professor Kate Hardy (*Imperial College, London, United Kingdom*)

**Tuesday 10 July 2012**

#### Speakers:

11:30 - 11:45 **Jocelyn Mora** (*Imperial College London, United Kingdom*)

Oocyte regulation of granulosa cell proliferation and phenotype in mouse preantral follicles

11:45 - 12:00 **Dr Mhairi Laird** (*imperial college london, United Kingdom*)

The effect of androgen on preantral follicle development *in vitro*

12:00 - 12:15 **Laura Frank** (*The Robinson Institute, Australia*)

Proteomic analysis of  $\beta$ -O-linked glycosylated proteins extracted from glucosamine-treated mouse cumulus-oocyte complexes reveals Hsp-90 glycosylation as a potential regulator of oocyte competence.

12:15 - 12:30 **Heidy Kaune Galaz** (*University of Oxford, United Kingdom*)

Oocytes lacking complex N- and O-glycans alters early embryo development

12:30 - 12:45 **Dr Dori Woods** (*Mass General Hospital/ Harvard Medical School, U.S.A.*)

DDX4-positive cells isolated from oogonial stem cell (OSC)-derived tumors initiate tumorigenesis

12:45 - 13:00 **Professor Yolanda Cruz** (*Oberlin College, U.S.A.*)

Trophoblast differentiation in the laboratory opossum, *Monodelphis domestica* Wagner (Didelphidae, Marsupialia) relies on many of the same genes delineating the inner cell mass from the trophoblast lineage in the mouse

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### Oral Session 3: Female Reproductive Tract

#### Prestonfield Room

This session is comprised of 6 presentations from abstract submissions.

#### Chairs:

Dr Irene Carvello (*Valencia University, Spain*)

#### Tuesday 10 July 2012

#### Speakers:

11:30 - 11:45 **Dr Denys deCatanzaro** (*McMaster University, Canada*)

Tracing of <sup>3</sup>H-oestradiol from circulation in male mice to the uterus, brain and other tissues of cohabiting juvenile and inseminated female

11:45 - 12:00 **Vincent Pang** (*University of Nottingham, United Kingdom*)

The effects of Simvastatin and its role in human myometrial contractility

12:00 - 12:15 **Dr Wai-Sum O** (*University of Hong Kong, China*)

Adrenomedullin as a biomarker for tubal ectopic pregnancy – new evidence from adrenomedullin function in the nasal ciliary epithelium

12:15 - 12:30 **Khadijeh Gholami** (*University of Malaya, Malaysia*)

Studies on the expression and functional activities of proteins involved in uterine fluid pH regulation in female rats

12:30 - 12:45 **Dr Kabir Raheem** (*Royal Veterinary College, United Kingdom*)

Influence of ovarian steroid hormones on expression of hyaluronan and its associated genes and receptor in ovine uterus

12:45 - 13:00 **Caroline Eozenou** (*INRA, France*)

FOXL2 endometrial expression is impacted by P4 and not IFNT in cattle

13:00 - 15:00 **Lunch, poster viewing and exhibition**

### Reproduction Editorial Board Meeting

#### Duddingston Room

**13:00-15:00**

This meeting is for members of the Reproduction Editorial Board only to attend.

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## SRF Student Prize and Election

### Pentland Suite

This session consists of 5 presentations from eligible authors' abstract submissions. Award value: £250

Once the presentations have been made there will then be an election for who will be the next SRF Postgrad/doc representative in company with Fiona Connolly and Alison Wallace. Please see the SRF's website for further details.

#### Chairs:

Alison Wallace (*St Georges University, United Kingdom*)

Fiona Connolly (*University of Edinburgh, United Kingdom*)

#### Tuesday 10 July 2012

#### Speakers:

15:00 - 15:15 **Katie Howe** (*University College London, United Kingdom*)

Mechanisms of chromosome segregation error correction in pre-implantation mouse embryos

15:15 - 15:30 **Karen Kilcoyne** (*University of Edinburgh, United Kingdom*)

Perinatal origin of putative adult Leydig progenitor cells: role of COUP-TFII and androgens

15:30 - 15:45 **Anais Vitorino Carvalho** (*INRA, France*)

Impact of *in-vivo* produced and cloned embryos on endometrial STAT1/SOCS pathway at implantation in cattle

15:45 - 16:00 **Caroline Schwarzer** (*Max Planck Institute for Molecular Biomedicine, Germany*)

SILAC protein expression profile of mouse metaphase II oocytes during maternal aging

16:00 - 16:15 **Sara Rinaldi** (*University of Edinburgh, United Kingdom*)

Characterisation of the inflammatory response in a mouse model of LPS-induced preterm labour.

16:30 - 17:30 **Tea/Coffee Break, Poster Session & Exhibition**

### Poster Session

#### 16:30-17:30

This poster session will consist of those posters whose abstracts have been accepted.

All authors must be stood alongside their poster during this session.

Posters will be displayed from authors who have had their abstracts accepted.

All posters will be automatically considered for the SRF Poster Prize and the judging will be based on the posters not the submitted abstracts.

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## SRF Distinguished Scientist Award Lecture

### Pentland Suite

#### Chair:

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

**Tuesday 10 July 2012**

#### Medal:

17:30 - 18:30 **Professor Blanche Capel** (*Duke University, USA*)  
Regulation of vascularization and morphogenesis of the fetal testis  
SRF Distinguished Scientist Award

19:30 - 20:15 **Pre Dinner Drinks**  
Kirkland Room, South Hall

20:15 - 23:55 **SRF Conference Dinner (includes prize giving and ceilidh)**  
South Hall

## SRF Annual General Meeting

### Pentland Suite

All members of SRF are invited to attend the Society's Annual General Meeting.

The agenda and documents for the meeting will appear on the Society's website in due course.

**Wednesday 11 July 2012**

#### Speaker:

09:00 - 09:30 **Professor Paul Fowler** (*University of Aberdeen, United Kingdom*)

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## SSR/SRF New Investigator Award Lectures

### Pentland Suite

#### Chair:

Dr Robert Abayasekara (*Royal Veterinary College, United Kingdom*)

**Wednesday 11 July 2012**

#### Medals:

09:30 - 10:15 **Dr Derek Boerboom** (*University of Montreal, Canada*)  
WNT4 signaling in the adult gonad: not just a girl thing?  
SSR New Investigator Award

10:15 - 11:00 **Dr Petros Marangos** (*University of Ioannina, Greece*)

The DNA damage response in mammalian oocytes  
SRF New Investigator Award

11:00 - 11:30 **Tea/Coffee Break, Poster Viewing & Exhibition**

### **Symposium 3: Growth Factor Signalling in Reproductive Niches**

#### **Pentland Suite**

#### **Chair:**

Dr Andrew Childs (*University of Edinburgh*)

**Wednesday 11 July 2012**

#### **Speakers:**

11:30 - 12:10 **Professor Kate Hardy** (*Imperial College, London, United Kingdom*)  
Bone morphogenetic protein antagonists and preantral follicle development in the ovary

12:10 - 12:50 **Dr Erika Matunis** (*Johns Hopkins University School of Medicine, U.S.A.*)  
Stem cell renewal in the *Drosophila* testis niche

12:50 - 13:30 **Professor John Aplin** (*University of Manchester*)  
Integrin-growth factor cross talk at implantation

13:30 - 13:45 **Closing Remarks**

13:45 **End of SRF Conference**