

SRF 2015 Scientific Programme

Monday 20 July 2015

Postgrad/Post Doctoral Symposium: Alternative Careers in Science – Bernard Sunley Theatre

The aim of this symposium is to increase awareness of careers in science outside of traditional academia. We have four interesting speakers all of whom have taken very different paths post PhD. Lunch will be included and all delegates are welcome to come along!

10:30 – 11:00	Registration – Bernard Sunley Foyer
11:00 – 11:25	Dr Michelle Myers (Medical Science Liaison at Roche)
11:25 – 11:50	Dr Jamie Gallagher (Public Engagement Officer at the University of Glasgow)
11:50 – 12:00	Break – Bernard Sunley Foyer
12:00 – 12:25	Dr George Ashley (Business Development Manager at PrimerDesign)
12:25 – 12:50	Dr Jessica Boname (Programme Manager for Reproductive Health at the MRC)
12:50 – 13:00	Panel questions
13:00 – 13:20	Lunch for Postgrad/Doc Symposium attendees – Bernard Sunley Foyer

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10:30 – 13:30	Registration, refreshments, put up posters – Bernard Sunley Foyer	
13:20 – 13:30	Welcome to SRF 2015 from Franchesca Houghton, Chair of SRF Programme Committee – Bernard Sunley Theatre	
Symposia 1: The sperm race – Bernard Sunley Theatre		
Chair: Richard Sharpe (University of Edinburgh, UK)		
13:30 – 14:00	S001	<i>Occupational and environmental influences on semen quality</i> Allan Pacey (University of Sheffield, UK)
14:00 – 14:30	S002	<i>How does the sperm spot egg?</i> Timo Strünker (Max Planck Institute, Germany)
14:30 – 15:00	S003	<i>Gamete interaction with the reproductive tract</i> Alireza Fazeli (University of Sheffield, UK)
15:00 – 15:30	Refreshments – Bernard Sunley Foyer	
Oral Communications Parallel sessions 1 & 2		
Oral communications 1 – Embryo and Implantation – Room C		
Chair: Amanda de Mestre (Royal Veterinary College, UK)		
15:30 – 15:45	O004	<i>The Bioenergetic Profile of the Bovine Blastocyst</i> Paul McKeegan (Leeds Institute of Cardiovascular and Metabolic Medicine, UK)
15:45 – 16:00	O005	<i>Effect of environmental oxygen on the expression of miRNAs in human embryonic stem cells</i> Sophia Sander (Centre for Human Development Stem Cells & Regeneration, Faculty of Medicine, University of Southampton, UK)

16:00 – 16:15	O006	<i>Involvement of microRNA lethal-7 in the regulation of embryo dormancy in mice</i> Weimin Liu (The University of HongKong, Hong Kong)
16:15 – 16:30	O007	<i>A potential co-culture system of ovine blastocyst with uterine endometrium to mimic initial attachment of embryo implantation</i> Tina Tremaine (The Royal Veterinary College, UK)
16:30 – 16:45	O008	<i>The Effect of In Vitro Fertilization (IVF) and Embryo Culture on Mouse Development and Adult Health</i> Anan A Ijhdali (University of Southampton, UK)
Oral communications 2 – Ovarian function – Bernard Sunley Foyer Chair: Mick Rae (Edinburgh Napier University, UK)		
15:30 – 15:45	O009	<i>Role of kit ligand in nuclear maturation in bovine oocytes</i> Paula Lima (UNESP, Brazil)
15:45 – 16:00	O010	<i>Role of Wnt/beta-catenin signal transduction pathway in rat follicular development and luteal function</i> Marta Tesone (IBYME-CONICET, Argentina)
16:00 – 16:15	O011	<i>The role of the oocyte is investigated in Premature Ovarian Failure using the Reaggregated Ovarian Pellet technique</i> Sairah Sheikh (University of Oxford, UK)
16:15 – 16:30	O012	<i>Differential effects of transforming growth factor beta 2 (TGFβ2) in two different models of preantral follicle growth</i> Elizabeth Oliver (Imperial College London, United Kingdom)
16:30 – 16:45	O013	<i>The oocyte induces estrus stage-specific changes in theca cells and their extracellular matrix</i> Alice Christensen (University of Oxford, UK)
16:45 – 17:00	Refreshments – Bernard Sunley Foyer	
17:00 – 18:20	SRF Post Doctoral Prize Session – Bernard Sunley Theatre Chairs: Andrew Childs (Royal Veterinary College) and Kanako Hayashi (Southern Illinois University School of Medicine, USA)	
17:00 – 17:20	O001	<i>Hyperandrogenism modulates adipokine gene expression in mouse adipocytes: implications for PCOS</i> Avi Lerner (Imperial College London, UK)
17:20 – 17:40	O002	<i>Hyperphagia of pregnancy and lactation is associated with changes in appetite-regulating gut hormones and gastrointestinal modifications in Wistar rats</i> Michelle L Johnson (The Open University, UK)
17:40 – 18:00	O003	<i>Kinetic, morphological and functional details of the early stages of human and mouse embryo implantation in an in vitro model</i> Peter Ruane (University of Manchester, UK)
18:00 – 18:20	S004	SRF-SRB Exchange Lecture: <i>Musashi RNA binding protein MSI2 interacts with SFPQ and controls the expression of target mRNAs Tbx1 and Piwil1 in male germ cells during spermatogenesis</i> Jessie Sutherland (The University of Newcastle, Australia)
18:20 – 19:00	Welcome drinks reception – Bernard Sunley Foyer	
19:00 – 20:00	Dinner – JCR Dining Hall	
20:30 – 21:30	Social event: Quiz – JCR Common Room Lounge	

Tuesday 21 July 2015	
08:30 – 09:00	Registration – <i>Bernard Sunley Foyer</i>
09:00 – 10:30	Symposia 2: Surgical intervention and fertility – <i>Bernard Sunley Theatre</i> Chair: W. Colin Duncan (University of Edinburgh, UK)
09:00 – 09:30	S005 <i>Ovarian autografts and autotransplants as experimental modes for the treatment of infertility</i> Bruce Campbell (University of Nottingham, UK)
09:30 – 10:00	S006 <i>Uterus transplantation – an update</i> Mats Brännström (University of Gothenburg, Sweden)
10:00 – 10:30	S007 <i>Mechanical injury of the endometrium to enhance implantation</i> Nava Dekel (The Weizmann Institute of Science, Israel)
10:30 – 11:00	Refreshments – <i>Bernard Sunley Foyer</i>
New Investigator Award lectures – <i>Bernard Sunley Theatre</i> Chair: Franchesca Houghton (University of Southampton, UK)	
11:00 – 11:40	S008 SRF New Investigator Award lecture: <i>Molecular mechanisms regulating early equine placental development in health and disease</i> Amanda de Mestre (Royal Veterinary College, UK)
11:40 – 12:20	S009 SSR New Investigator Lecture: <i>Epithelial genes in the endometrial and ovarian cancer</i> Kanako Hayashi (Southern Illinois University School of Medicine, U.S.A.)
12:30 – 13:30	SRF AGM – <i>Bernard Sunley Theatre</i> (for SRF members only)
13:00 – 14:00	Lunch – <i>Bernard Sunley Theatre</i>
13:30 – 14:30	Poster viewing session – <i>Room A</i>

14:30 – 16:00	SRF Student Prize Session – <i>Bernard Sunley Theatre</i> Chairs: Christopher Coyle (University of Aberdeen, UK) and Jessie Sutherland (The University of Newcastle, Australia)	
14:30 – 14:45	0014	<i>Maternal protein restriction around conception reduces the neural stem cells during mouse fetal brain development and alters neuronal differentiation during gestation</i> Joanna Gould (University of Southampton, UK)
14:45 – 15:00	0015	<i>Defective decidualisation: a possible mechanism of Chlamydia trachomatis induced miscarriage</i> Sevasti Giakoumelou (University of Edinburgh, UK)
15:00 – 15:15	0016	<i>Investigating a role for the epidermal growth factor receptor (EGFR) in androgen signalling within mouse preantral follicle development</i> Kacie Thomson (Imperial College London, UK)
15:15 – 15:30	0017	<i>Decidual macrophages become increasingly immunosuppressive during early pregnancy and an altered activation state may be associated with a higher risk of preeclampsia</i> Rebecca Buckley (St George's University of London, UK)
15:30 – 15:45	0018	<i>Variations in the way UK pregnant sheep are managed programs male reproductive development</i> Evangelia Moutevelidi (University of Edinburgh, UK)
15:45 – 16:00	0019	<i>Obesity in PCOS: a consequence of prenatally programmed reduced energy expenditure</i> Katarzyna Siemienowicz (University of Edinburgh, UK)
16:00 – 16:30	Refreshments – <i>Bernard Sunley Foyer</i>	
SRF Distinguished Scientist lecture – <i>Bernard Sunley Theatre</i> Chair: Tony Michael (Queen Mary University of London, UK)		
16:30 – 17:30	S010	<i>Reproduction as the pivot for adaptability of the next generation(s), and its health consequences</i> Richard Sharpe (University of Edinburgh, UK)
19:30 – 20:00	SRF 2015 Pre-dinner drinks reception – <i>Lawn outside JCR</i>	
20:00 – 23:30	SRF 2015 Confernece dinner – <i>JCR Dining Hall</i> Ceilidh – <i>Common Room Lounge</i>	

Wednesday 22 July 2015

Oral Communications Parallel sessions 3 & 4

Oral Communications 3 – Sperm – Room C

Chair: Alireza Fazeli (University of Sheffield, UK)

09:30 – 09:45	0020	<i>Sertoli-specific ablation of RHOX8 results in impaired spermatogenesis in mice</i> James MacLean (Southern Illinois University, U.S.A.)
09:45 – 10:00	0021	<i>Ruminal acidosis has long term effects upon sperm production in the bull</i> Viv Perry (University of Nottingham, UK)
10:00 – 10:15	0022	<i>Interaction of progesterone and pH in regulation of hyperactivated motility in human spermatozoa</i> Cosmas Achikanu (University of Birmingham, UK)
10:15 – 10:30	0023	<i>Notch signaling in the bovine oviduct and spermatozoa: a regulator of the spermatozoa-oviduct interaction?</i> Mariana Batista (CIISA - Centro Interdisciplinar de Investigação em Sanidade Animal, Faculty of Veterinary Medicine, Portugal)
10:30 – 10:45	0024	<i>The effects of alcohol-induced oxidative stress on sperm DNA and fertility outcomes</i> Edidiong Akang (Benue State University, Nigeria)

Oral communications 4 – Female reproduction – Bernard Sunley Theatre

Chair: Tom Fleming (University of Southampton, UK)

09:30 – 09:45	0025	<i>Alteration of mechanisms underlying pituitary microvasculature remodelling and reduction in prolactin secretion precede full activation of the gonadotrophic axis in anoestrous ewes receiving exogenous melatonin</i> Josephine Mooney (University of Bristol, UK)
09:45 – 10:00	0026	<i>Neuroendocrine control of ovulation in primates: a role for two distinct populations of GnRH neurons?</i> Henryk Urbanski (ONPRC-OHSU, U.S.A.)

10:00 – 10:15	O027	<i>Investigation into the role of endometrial heparinase (HPSE), hypoxia-inducible factor (HIF1A), secreted phosphoprotein 1 (SPP1), uteroferrin (ACP5) and vascular endothelial growth factor A (VEGFA) in foetal growth in pigs</i> Claire Stenhouse (The Roslin Institute, UK)
10:15 – 10:30	O028	<i>Regulation of the prostaglandin synthase COX2 by epidermal growth factor requires Steroid Receptor Coactivator Interacting Protein (SIP) in human myometrium</i> Claire Hudson (University of Bristol, UK)
10:30 – 10:45	O029	<i>Maternal leptin levels: Association with pregnancy outcome</i> Kamani Tennekoon (Institute of Biochemistry Molecular Biology and Biotechnology, Sri Lanka)
10:45 – 11:15	Refreshments – Bernard Sunley Foyer	
10:45 – 11:45	Poster viewing session – Room A	
Symposia 3: Management of livestock fertility – Bernard Sunley Theatre Chair: Claire Wathes (Royal Veterinary College, UK)		
11:45 – 12:15	S011	<i>Nutritional impact on fetal development</i> Jacqueline Wallace (University of Aberdeen, UK)
12:15 – 12:45	S012	<i>Impact of prenatal stress on reproductive development in livestock</i> Cheryl Ashworth (University of Edinburgh, UK)
12:45 – 13:15	S013	<i>Embryo-uterine dialogue in the cow</i> Olivier Sandra (INRA, France)
13:15 – 13:25	SRF 2015 Closing remarks – Bernard Sunley Theatre from Franchesca Houghton, Chair of SRF Programme Committee and University of Southampton, UK)	