Wednesday 26th August, 2015

Novo Nordisk Breakfast Symposium - Mechanisms linking obesity with CV disease and Hypertension: The effects of modest weight loss.
7:00am - 8:30am
Riverbank 4

Session sponsored by

SRB Orals - The Ovarian Follicle
8:30am - 9:30am
Panorama 1,2,3
Chairs: Jock Findlay & Katja Hummitzsch

8:30 AM Patrick Western
A common progenitor pool in the foetal ovary specifies granulosa cells of medullary and cortical ovarian follicles abs# 128

8:45 AM Aimee Caldwell
Adverse effects of the hyperandrogenic environment on follicle dynamics in culture: a model of Polycystic Ovary Syndrome (PCOS) abs# 129

9:00 AM Michael J Bertoldo
BMP15 and GDF9 increase intracellular cyclic AMP concentration and junctional protein mRNA expression in granulosa cells abs# 130

9:15 AM Lisa Sercombe
mTORC1 hyperactivation induces the ovarian phenotype of PCOS abs# 131

SRB Orals - Determinants of Male Fertility
8:30am - 9:30am
Room L2
Chairs: Moira O'Bryan & Tamara Leahy

8:30 AM David J Sharkey
Variation in Seminal Plasma Cytokine Content in Repeat Samples from Proven Fertile Men abs# 132

8:45 AM Shaun D Roman
Alleviating the effects of acrylamide on the male germ line. abs# 133

9:00 AM Jinhua Hu
The exposure of sperm to epididymal cysteine-rich secretory proteins (CRISPs) is required for full male fertility abs# 134

9:15 AM Jessica Dunleavy
KATNAL2, a microtubule-regulating enzyme required for male fertility abs# 135

SRB Orals - Uterus and Endometrium
8:30am - 9:30am
Room L3
Chairs: Lois Salamonsen & Tu'uhevaha Kaitu'u-Lino

8:30 AM Caroline E Gargett
Culture Expansion of Undifferentiated Human Endometrial Mesenchymal Stem Cells Using a Small Molecule Inhibitor abs# 136
8:45 AM  **Laura A Lindsay**  
The Changing Faces of ‘Receptive’ Uterine Epithelial Cells after Ovarian Hyperstimulation  *abs# 137*

9:00 AM  **Hanan Hamimi Binti Wahid**  
Toll-like receptor 4 is an essential upstream regulator of on-time parturition and perinatal viability in mice  *abs# 138*

9:15 AM  **Florine Cynthia Martin**  
Comparison and Quantitation of the uterine secretome by mass spectrometry during diapause and reactivation in the tammar wallaby  *abs# 139*

**SRB Orals - The HPG axis**

8:30am - 9:30am  
Riverbank 5
Chairs: Jeremy Smith & Linda Wu

8:30 AM  **Julie-Ann P De Bond**  
Altered hypothalamic metabolic gene expression in obese Kiss1r knockout mice  *abs# 140*

8:45 AM  **Qun Li**  
Expression of Kisspeptin, neurokinin B, dynorphin and GnIH prior to and after puberty in sheep  *abs# 141*

9:00 AM  **Christopher J Scott**  
Can kisspeptin treatment be used to advance/induce ovulation in anoestrous bitches?  *abs# 142*

9:15 AM  **Alyce M Swinbourne**  
Gonadotrophin releasing hormone challenge for the validation and analysis of luteinizing hormone in non-invasive urine samples from captive female southern hairy-nosed wombats (*Lasiorhinus latifrons*).  *abs# 143*

**ESA Clinical Symposium: Adrenal Hormones**

8:30am - 10:30am  
City Room 1 & 2
Chairs: Ray Rodgers & Venessa Tsang

8:30 AM  **William Rainey**  
Steroid Biomarkers for Adrenal Diseases: What’s on the Horizon?  *abs# 144*

9:00 AM  **Mark Cooper**  
In vivo measurement of cortisol metabolism  *abs# 145*

9:30 AM  **Lucy Gagliardi**  
New Concepts in Familial Bilateral Macronodular Adrenal Hyperplasia  *abs# 146*

10:00 AM  **Graeme Eisenhofer**  
Phaeochromocytoma and paraganglioma: from routine laboratory testing to disease stratification and personalised medicine  *abs# 147*

**ESA - ADS Plenary**

9:00am - 9:45am  
Chair: Timothy Davis

9:00 AM  **Steven Kahn**  
The Beta Cell in Type 2 Diabetes: From The Clinic to The Lab  *abs# 148*
SRB President’s Lecture
9:30am - 10:30am
Chair: Eileen McLaughlin
Session sponsored by Reproduction, Fertility and Development

9:30 AM Moira O’Bryan
HENMT1 Is Required for piRNA Stability and Both Male and Female Fertility. abs# 149

Morning Tea
10:30am - 11:00am
Session sponsored by SANOFI DIABETES

ESA - SRB Joint Symposium: Development programming of insulin resistance and cardiovascular disease
11:00am - 1:00pm
Chairs: Mary Wlodek & Tod Fullston
Session sponsored by novo nordisk

11:00 AM Catherine Suter
Developmental programming of insulin resistance and diabetes abs# 150

11:30 AM Leonie Heilbronn
Understanding increased metabolic risk associated with IVF abs# 151

12:00 PM Karen Moritz
Periconceptional alcohol exposure - uterine and blastocyst contributions to offspring health abs# 152

12:30 PM Peter Mark
Metabolic and circadian perturbations in liver and adipose tissue underlie programming by glucocorticoids in rats: modulation by postnatal high fat and omega-3 fatty acids abs# 153

ESA Basic Symposium: Exercise - How much and what are the benefits?
11:00am - 1:00pm
Chair: Vita Birzniece

11:00 AM Nuala Byrne
Exercise: how much and what are the benefits for fitness versus fatness abs# 154

11:30 AM Robin Daly
Exercise prescription for bone health and fracture prevention abs# 155

12:00 PM Glenn McConell
Exercise as an intervention after IUGR abs# 156

12:30 PM David Dunstan
The Health Hazards of Too Much Sitting – What Can We Do About It? abs# 157
**ESA Basic Orals - Frontiers in Endocrinology**

11:00am - 1:00pm

Chair: Ann Drummond

11:00 AM  **Vincent Harley**
DHH, ETV5 AND NEDD9 - Novel Targets of Sox9 in Mammalian Sex Determination  *abs# 158*

11:15 AM  **Mitchell Lawrence**
Surveying the epigenome landscape of the prostate cancer microenvironment: identification of estrogen receptor α as a key differentially methylated gene  *abs# 159*

11:30 AM  **Heather K Armstrong**
A novel class of Hsp90 inhibitors induce apoptosis in prostate tumours while minimising mechanisms of resistance.  *abs# 160*

11:45 AM  **Keely M McNamara**
Elf5 is associated with FOXA1 expression in the absence of AR and survival outcomes in triple negative cancer patients.  *abs# 161*

12:00 PM  **Craig Harrison**
Targeting activin to prevent muscle wasting  *abs# 162*

12:15 PM  **Sunethra D Thomas**
Active alternative ‘backdoor’ pathway in CAH demonstrated by urine steroid profiles  *abs# 163*

12:30 PM  **Timothy J Cole**
Characterization of a novel human species-restricted hydroxysteroid dehydrogenase called 11bHSD1L in the hypothalamus-pituitary-gonadal axis  *abs# 164*

12:45 PM  **Elizabeth K Fletcher**
Activation of the mineralocorticoid receptor promotes tissue inflammation in part via the peripheral molecular clock  *abs# 165*

**ESA Clinical Symposium: Skeletal fragility beyond BMD**

11:00am - 1:00pm

Chairs: Roderick Clifton-Bligh & Chris White

11:00 AM  **Peter Ebeling**
Obesity, Diabetes and Fracture Risk  *abs# 166*

11:30 AM  **Emma Duncan**
Osteoporosis imperfecta and other heritable disorders of bone fragility: investigation and management in adults  *abs# 167*

12:00 PM  **Nicholas Pocock**
Use of QCT and trabecular bone score in the assessment of Osteoporosis  *abs# 168*

12:30 PM  **Grahame Elder**
Renal bone disease - how to assess and manage  *abs# 169*
ESA - ADS Joint Symposium: Oxidative Stress
11:00am - 1:00pm
Riverbank 6, 7 & 8
Chairs: Josephine Forbes & Stephen Twigg

11:00 AM Steven Kahn
β-cell Apoptosis: The Role of Apoptosis Repressor with CARD Domain (ARC) abs# 170

11:30 AM Karin Jandeleit-Dahm
Reactive oxygen species and diabetic complications abs# 171

12:00 PM Kerry-Anne Rye
Impact of HDL on Oxidative Stress in Diabetes abs# 172

12:30 PM Mark Cooper
Advanced Glycated Products abs# 173

Lunch
1:00pm - 2:00pm
Hall H

ESA Debate
1:00pm - 2:00pm
Riverbank 6, 7 & 8

ESA - SRB Orals - Hormones and Reproduction
2:00pm - 3:30pm
City Room 1 & 2
Chairs: Craig Harrison

2:00 PM Sarah A Marshall
Enhanced sensitivity to angiotensin II in the mesenteric arteries of late pregnant relaxin deficient mice. abs# 174

2:15 PM Constanze C Maresch
Testicular function and activin A in the Ins2(Akita) mouse, a model of type 1 diabetes abs# 175

2:30 PM Ann E Drummond
Ovarian function is regulated by the mineralocorticoid receptor abs# 176

2:45 PM Kelly Walton
The generation of bioactive inhibins in the absence of activins abs# 177

3:00 PM Carolina Soekmadji
Extracellular vesicle-mediated growth in androgen-deprived prostate cancer cells abs# 178

3:15 PM Gerard A Tarulli
Unraveling an identity for the androgen receptor-expressing mammary epithelial cell abs# 179
Bioscientifica Symposium - Practical publishing advice
2:00pm - 3:30pm
Chair: Sof Andrikopoulos
2.00 PM Introduction - Associate Professor Sof Andrikopoulos
2.05 PM The manuscript submission process - Professor Wayne Tilley
2.15 PM The peer review process - Dr Chris O'Neill
2.25 PM Responding to reviewer comments - Professor Mark Cooper
2.35 PM Publishing ethics - Professor Ken Ho
2.45 PM Open access - Associate Professor Warrick Inder
2.55 PM Increasing the impact of your work - Associate Professor Ross Laybutt
3.05 PM Question and answer session

ESA Clinical Symposium: Testosterone - The good, the bad and the ugly
2:00pm - 3:30pm
Chairs: Mathis Grossmann & Kirsty Walters
2:00 PM **Jeffrey Zajac**
Androgen receptor function: The biological basis of diseases linked to testosterone \[abs\# 180\]
2:30 PM **Bu B Yeap**
Androgens and cardiovascular risk \[abs\# 181\]
3:00 PM **David Handelsman**
Andropause/Low T: The Masquerade of Sick Eugonadism \[abs\# 182\]

ESA Basic Orals - Metabolic
2:00pm - 3:30pm
Chair: Matthew Watt
2:00 PM **Mojgan Nazari**
Using translating ribosome affinity purification (TRAP) to investigate gene expression in beige or ‘browned’ adipocytes \[abs\# 183\]
2:15 PM **Helen L Barrett**
Expression of hexosamine signaling pathway genes in placentae from women with gestational diabetes mellitus (GDM) \[abs\# 184\]
2:30 PM **Rajes Qvist**
Beta Adrenergic receptors stimulation attenuates hyperglycemia-induced inflammation and apoptosis via NF-κB and IκBα in endothelial cells \[abs\# 185\]
2:45 PM **Albert Wu**
Age-related changes in estradiol and longitudinal associations with fat mass in men \[abs\# 186\]
3:00 PM **Mary Wlodek**
Metabolic and fetal benefits of endurance exercise training for females born small on high fat diet \[abs\# 187\]
3:15 PM **Anjana Radhakutty**
Effect of low dose glucocorticoid therapy on arginine metabolism in patients with rheumatoid arthritis \[abs\# 188\]
2:00 PM  **Warrick Inder**  
Thrombospondin-1 is a glucocorticoid responsive protein and potential biomarker of glucocorticoid activity.  *abs# 189*

2:15 PM  **Katherine English**  
The role of a day 5 metyrapone test in assessing the HPA axis post pituitary surgery, a prospective trial  *abs# 190*

2:30 PM  **Anthony R Lam**  
Loss-of-function germline *FGFR1* mutation identified in a patient with prolactinoma  *abs# 191*

2:45 PM  **Viral Chikani**  
Growth hormone replacement improves anaerobic capacity and physical function in adults with growth hormone deficiency  *abs# 192*

3:00 PM  **Jessica E Harris**  
Germline mutation in the MET proto-oncogene, receptor tyrosine kinase/hepatocyte growth factor receptor (*MET*) in a patient with phaeochromocytoma – a new gene for this disorder  *abs# 193*

3:15 PM  **Nicolette A Hodyl**  
A larger cortisol awakening response is associated with improved later day cognitive function  *abs# 194*

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2:00 PM  **John P Walsh**  
Reconciling the log-linear and non-linear aspects of the TSH-free T4 relationship: intra-individual analysis of a large population  *abs# 195*

2:15 PM  **Emma Scott**  
Endocrinopathies associated with immune modulation therapy for the treatment of metastatic melanoma  *abs# 196*

2:30 PM  **Alexander J Rodriguez**  
Association between plasma adipocytokine concentrations and microvascular complications in patients with type 2 diabetes mellitus: a systematic review and meta-analysis of controlled cross-sectional studies  *abs# 197*

2:45 PM  **Jessie Teng**  
Effect of adrenocorticotropic hormone stimulation on the outcomes of adrenal vein sampling in primary aldosteronism  *abs# 198*

3:00 PM  **Stefan Bagheri-Fam**  
Ligand-independent activation of FGFR2c leads to XY sex reversal in humans and mice  *abs# 199*

3:15 PM  **Radhika Seimon**  
Fast weight loss does not reduce muscle strength or bone mineral density compared with slow weight loss in obese post-menopausal women  *abs# 200*
SRB Workshop - Doctors without academic borders - alternate PhD career paths
2:00pm - 5:00pm Room L2
Chairs: John Schjenken & Tamara Leahy

2:00 PM Simon Barry
A/Prof Simon Barry, University of Adelaide abs# 201

2:20 PM Leigh Guerin
Dr Leigh Guerin, Phillips Ormonde Fitzpatrick abs# 202

2:40 PM Melanie Bagg
Dr Melanie Bagg, The Australian Science Media Centre abs# 203

3:00 PM Ryan Rose
Ryan Rose, Fertility SA abs# 204

3:20 PM Kiri Beilby
Kiri Beilby, Origio abs# 205

ESA Senior Plenary
3:30pm - 4:30pm Riverbank 6,7 & 8
Chairs: Peter Ebeling

3:30 PM Evan Simpson
Oestrogens – the good, the bad, and the unexpected abs# 333