

Sunday 23rd August, 2015

SRB Council Meeting

11:30am - 1:00pm

Riverbank Boardroom

Registration Open

12:00pm - 5:30pm

Foyer H

SRB Symposium: Novel Mechanisms of Transgenerational Inheritance

1:45pm - 3:15pm

Riverbank 2 & 3

Chair: Patrick Western & Darryl Russell

1:45 PM **Damian Dowling**

Evolution within the mitochondria – adaptation, conflict, and the health implications *abs# 1*

2:15 PM **Angela Crean**

Males deliver more than DNA *abs# 2*

2:45 PM **Richard Saffery**

Establishing epigenetic change as the mediator of fetal programming in humans: are we there yet? *abs# 3*

Public Symposium: Making babies in the 21st Century

3:30pm - 5:30pm

Metabolics

Riverbank 2 & 3

Prof Claire Roberts

Inequality begins before birth

Prof Michael Davies Intergenerational transmission of health inequalities

Dr Alice Rumbold

Maternal and child health in our Aboriginal and remote communities

Prof Robert Norman

Africa to Adelaide- Poverty, prosperity and pregnancy

Prof Sarah Robertson

From one generation to the next - parenting begins before conception

Welcome Function

5:30pm - 7:00pm

Foyer F

Monday 24th August, 2015

Registration Open

7:00am - 9:00am

Joint Welcome

8:30am - 8:45am

Halls L & M

Chairs: Eileen McLaughlin & Helena Teede

ESA Harrison Plenary Lecture

8:45am - 9:45am

Halls L & M

Chair: Helena Teede

8:45 AM **Richard Santen**

Estrogen paradox: how can estrogen both cause and prevent breast cancer? *abs# 4*

SRB Orals - Non-coding RNAs in reproduction

8:45am - 10:00am

Riverbank 6 & 7

Chairs: Darryl Russell & Andrew Pask

8:45 AM **Marilyn B Renfree**

Alternative splicing of *HOX* genes and their adjacent long noncoding RNAs may regulate sexually dimorphic phallus development *abs# 5*

9:00 AM **Hon-yeung Chan**

Paternal miR146a influences the female post-coital inflammatory response to seminal fluid *abs# 6*

9:15 AM **Bihong Zhang**

Seminal Fluid Regulates miR155, which Impacts on Treg Cells and Alters Pregnancy Outcomes *abs# 7*

9:30 AM **Shoichi Wakitani**

Potential effect of activin on establishment of piRNA machinery in human germ cells *abs# 8*

9:45 AM **Tod Fullston**

A paternal high fat diet alters founder sperm microRNA profile and implicates it as part of a candidate epigenetic mechanism underlying paternal programming. *abs# 9*

SRB Orals - Spermatogenesis

8:45am - 10:00am

Riverbank 4

Chairs: Tanya Soboleva & Mark Baker

8:45 AM **Duangporn Jamsai**

RBM5 is required for spermatogonia differentiation *abs# 10*

9:00 AM **Eileen A McLaughlin**

Dynamin 2: an essential regulator of male germ cell development *abs# 11*

- 9:15 AM **Diana Micati**
Delineating the role of Snail transcription factors in the testis *abs# 12*
- 9:30 AM **Hidenobu Okuda**
A novel transcription factor NKAPL is a germ cell-specific suppressor of the Notch signaling pathway and is indispensable for spermatogenesis. *abs# 13*
- 9:45 AM **Brett Nixon**
Assessment of capacitation-like changes in the spermatozoa of the Australian saltwater crocodile *abs# 14*

SRB Orals - Fertilisation & early embryogenesis

8:45am - 10:00am

Riverbank 5

Chairs: Mark Green & Mark Nottle

- 8:45 AM **Deirdre L Zander-Fox**
Exposure to ammonium during pre-implantation embryo development significantly alters offspring phenotype. *abs# 15*
- 9:00 AM **Yonggang Lv**
Phthalate ester-induced cytoskeletal disruption in early embryogenesis of an Australian native marine invertebrate *Galeolaria gemineoa* (Polychaeta: Serpulidae) *abs# 16*
- 9:15 AM **Chris O'Neill**
Autocrine ligands activate a canonical immediate early gene and late gene response at the time of embryonic genomic activation in the mouse 2-cell embryo *abs# 17*
- 9:30 AM **Geoffry N De Iuliis**
Oxidative Stress-Induced Protein Modifications in Spermatozoa and Consequences for Sperm-Oocyte Recognition *abs# 18*
- 9:45 AM **Helana Shehadeh**
Dietary micronutrient supplementation to a high fat diet reduces sperm oxidative stress and improves fertilisation rates in a mouse model *abs# 19*

ESA Servier Award Lecture

9:45am - 10:00am

Halls L & M

Chair: Helena Teede

Session sponsored by



- 9:45 AM **Christian Girgis**
The vitamin D receptor (VDR) is expressed in skeletal muscle of male mice and modulates 25-hydroxyvitamin D (25OHD) uptake in myofibers *abs# 20*

Morning Tea

10:00am - 10:30am


Hall H

ESA - Novartis Junior Scientist

10:30am - 11:45am

Halls L & M

Chairs: Helena Teede & Marianna Volpert

Session sponsored by  NOVARTIS
PHARMACEUTICALS

- 10:30 AM **CheukMan Cherie Au**
Des-acyl ghrelin inhibits oestrogen-stimulated breast tumour growth *in vitro* and *in vivo* *abs# 21*
- 10:45 AM **Dilys TH Leung**
Combined PPAR γ and XIAP treatment sensitises granulosa cell tumours to PPAR γ -mediated apoptosis *abs# 22*
- 11:00 AM **Bennet Seow**
Comparative Effects of Endogenous and Synthetic Glucocorticoid Steroids during Mammalian Lung Development *abs# 23*
- 11:15 AM **Ying Wan**
The refinement of Luteinizing Hormone (LH) output during pubertal maturation is associated with the recruitment of follicle in adult female mice *abs# 24*
- 11:30 AM **Danielle H Upton**
Granulosa cell-specific or global *Pten* mutations in combination with transgenic FSH expression fails to induce ovarian tumors. *abs# 25*

SRB Orals - Immune cells & Inflammation

10:30am - 12:00pm

Riverbank 2 & 3

Chairs: Mark Hedger & John Schjenken

- 10:30 AM **Brandon R Menzies**
Major histocompatibility complex class I genes at the fetal-maternal interface of a marsupial (*Macropus eugenii*) *abs# 26*
- 10:45 AM **Lachlan M Moldenhauer**
Toll-like receptor 4 antagonist (+)-naloxone prevents infection-driven fetal loss and preterm labour in mice *abs# 27*
- 11:00 AM **Peck Y Chin**
Novel non-competitive Interleukin-1 receptor antagonist prevents LPS-induced preterm birth *abs# 28*
- 11:15 AM **Sivanjah Indumathy**
Delineation of myeloid lineage derived immune cells in the adult mouse testis *abs# 29*
- 11:30 AM **James A Deane**
Expression of the Stem Cell Marker mTert Identifies Epithelial, Endothelial and Leukocyte populations in the Mouse Endometrium. *abs# 30*
- 11:45 AM **Viv Perry**
Sex specific effects of early gestational diet upon the developing immune system *abs# 31*

SRB - Oozoa Award Finalists

10:30am - 12:00pm

Riverbank 6 & 7

Chairs: Robert Gilchrist & Deirdre L Zander-Fox

Session sponsored by



- 10:30 AM **Dannielle H Upton**
High FSH levels alter oocyte *in vitro* maturation but not oocyte aneuploidy in a transgenic mouse model. *abs# 32*
- 10:45 AM **Dave R Listijono**
SIRT2 over-expression reverses ageing-induced decline in oocyte quality *abs# 33*
- 11:00 AM **Jacinta H Martin**
Permeability Glycoprotein Enhances Cellular Drug Exclusion in the Early Embryo; Upholding DNA Integrity *abs# 34*
- 11:15 AM **Brendan Houston**
The effect of radiofrequency-electromagnetic radiation on the male germ line *abs# 35*
- 11:30 AM **Sally Hall**
Electrophilic aldehydes increase free radical production and modify surface proteins in horse spermatozoa *abs# 36*
- 11:45 AM **Jackson N Reilly**
Next generation sequence analysis of miRNA signatures in mouse epididymal epithelial cells and spermatozoa. *abs# 37*

SRB Plenary Founder's Lecture

12:00pm - 1:00pm

Halls L & M

Chair: Eileen McLaughlin

Session sponsored by

Reproduction, Fertility and Development

- 12:00 PM **Blanche Capel**
The Battle of the Sexes: Establishing male or female fate of the bipotential gonad *abs# 38*

ESA and ENSA Lunch

12:00pm - 1:00pm

Hall H

ESA Clinical Session: What's new in Pituitary?

12:15pm - 1:00pm

Riverbank 4

Chair: Ann McCormack

- 12:15pm **Ken Ho**
What's new in Pituitary?

SRB Lunch

1:00pm - 2:00pm

Hall H

ESA Symposium: Novel uses of bone therapies in the cancer setting

1:00pm - 2:30pm

Halls L & M

Chairs: Peter Ebeling & Christian Girgis

- 1:00 PM **Mike Rogers**

Bisphosphonates and cancer: seeing old drugs in a new light *abs# 39*

1:30 PM **David Callen**

How does vitamin D influence the risk of breast cancer? *abs# 40*

2:00 PM **David Thomas**

RANKL and giant cell tumor of bone: the growing problem of benign tumours.
abs# 41

ESA Clinical Orals - Men's Health and Case Studies

1:00pm - 2:30pm

Riverbank 4

Chair: Jeffrey Zajac & Carolyn Petersons

1:00 PM **Jason Tan**

Low endogenous testosterone levels increase the risk of type 2 diabetes in men, independent of established risk factors *abs# 42*

1:15 PM **Benjamin Hsu**

Lower circulating testosterone (T) is a consequence rather than a cause of poor health in older men: the Concord Health and Ageing in Men Project (CHAMP) *abs# 43*

1:30 PM **Henry Wong**

Sex hormone binding globulin and free testosterone as predictors of mortality in men with type 2 diabetes *abs# 44*

1:45 PM **Bu B Yeap**

Proportion of undercarboxylated osteocalcin and serum P1NP predict incidence of myocardial infarction in older men. *abs# 45*

2:00 PM **Jasna Aleksova**

Treating Type 1 Diabetes with Glucocorticosteroids: A case report of PD-1 Receptor inhibition induced Type 1 Diabetes *abs# 46*

2:15 PM **Jessica L Stranks**

Like mother like son? Variable expression and phenotype of an inactivating dominant ATP-binding cassette sub-family C member 8 (ABCC8) gene mutation within a single family. *abs# 47*

SRB AGM

1:30pm - 2:30pm

Riverbank 6 & 7

Afternoon Tea

2:30pm - 3:00pm

Hall H

ESA - US Endocrine Society Symposium: Empowering the next generation of clinical and academic endocrinologists - what are the challenges?

3:00pm - 5:00pm

Halls L & M

Chairs: Emma Duncan & Duncan Topliss

Panellists:

Dr Kirsty Walters , Medicine, Concord Clinical School, ANZAC Research Institute, The University of Sydney

Dr Anju Joham, Postdoctoral Research Fellow, Monash Centre for Health Research and Implementation, School of Public Health and Preventative Medicine, Monash University

- 3:00 PM **Richard Santen**
Title: Empowering the next generation of endocrinologists: United States perspective *abs# 49*
- 3:30 PM **Peter Ebeling**
- 4:00 PM **Helena Teede**
Empowerment of the next generation of clinicians and researchers in Endocrinology: What are the challenges? The inaugural joint US Endocrine and ESA symposium. *abs# 48*
- 4:30 PM **Forum and discussion**

ESA - AWE - Neuroendocrinology Australasia Symposium

3:00pm - 5:00pm

Riverbank 2 & 3

Chair: Beverly Muhlhausler

- 3:00 PM **Christine Jasoni**
Understanding how maternal obesity and fetal neuro-immune interactions change the development of the hypothalamic arcuate nucleus in the mouse *abs# 50*
- 3:30 PM **Pauline Campos**
New technologies to resolve old questions : Using optogenetics to elucidate GnRH/LH pulses *abs# 51*
- 4:00 PM **Shyuan Ngo**
Neurodegeneration: an endocrine and metabolic perspective *abs# 52*
- 4:30 PM **Aneta Stefanidis**
TBC *abs# 53*

SRB - ANZPRA Symposium: Understanding and treating pre-eclampsia

3:00pm - 5:00pm

Riverbank 6 & 7

Chairs: Claire Roberts & Kirsty Pringle

- 3:00 PM **Euan Wallace**
Curing preeclampsia: beyond blood pressure control *abs# 54*
- 3:30 PM **Stephen Tong**
A systematic screening approach to identify therapeutics for preeclampsia *abs# 55*
- 4:00 PM **Mark Brown**
Clinical Management of Pre-eclampsia *abs# 56*
- 4:30 PM **Guiying Nie**
Understanding of early-onset preeclampsia through a placenta-specific protease *abs# 57*

ESA Basic Symposium: Breast cancer and oestrogen

3:00pm - 5:00pm

Riverbank 4

Chairs: Peter Fuller & Christopher Ormandy

- 3:00 PM **Evan Simpson**
Metabolism strikes back: metabolic flux regulates cell signalling and proliferation *abs# 58*
- 3:30 PM **Shiuan Chen**
SERPINA1 is a direct Estrogen Receptor target gene and a predictor of survival in breast cancer patients *abs# 59*
- 4:00 PM **Kenneth Korach**
Genetically Modified Mouse Models to Dissect the Physiological Roles of ER α 's Functional Domains *abs# 60*
- 4:30 PM **Kristy Brown**
Dysregulated metabolism in obesity and breast cancer: Clues to novel therapeutics strategies? *abs# 61*

SRB Symposium: Nanoscale biosensing in reproductive medicine

3:00pm - 5:00pm

Riverbank 5

Chairs: Jeremy Thompson & David Gardner

- 3:00 PM **Mark Hutchinson**
New windows into the body *abs# 62*
- 3:20 PM **Ewa Goldys**
Through the looking glass: what can we see in the early embryo when we look carefully enough *abs# 63*
- 3:40 PM **Brant Gibson**
Nanodiamond for BioPhotonic and Hybrid-Photonic applications *abs# 64*
- 4:00 PM **Sabrina Heng**
Microstructured Optical Fibers and Photoswitches: Light-Driven Sensors for Metal Ions in Biology. *abs# 65*
- 4:20 PM **Erik Schartner**
Development of optical fibre probes for biosensing applications *abs# 66*
- 4:40 PM **Malcolm S Purdey**
A Non-invasive Sensor for Hydrogen Peroxide and pH *abs# 67*

Joint Poster Viewing

5:00pm - 7:00pm

Hall H

Evening Social - 'Party like it's the End of the World!'

7:30pm - 10:00pm

The Worldsend Hotel, 208 Hindley Street, Adelaide

Eli Lilly Dinner Meeting - Type 1 diabetes and exercise - Lessons from athletes for the clinic.

7:00pm - 9:30pm

Riverbank 2 & 3

Session sponsored by

Lilly | DIABETES

Tuesday 25th August, 2015

Ipsen Breakfast Symposium - Neuroendocrine tumours; Diagnosis to treatment – the role of the Endocrinologist

7:00am - 8:30am

Riverbank 2 & 3

Session sponsored by of



ESA Taft Lecture

8:30am - 9:30am

Halls L & M

Chair: Warrick Inder

8:30 AM **Michael Tuttle**

Is immediate surgery really necessary in every patient with primary or recurrent papillary thyroid cancer? *abs# 68*

SRB - Robinson Research Institute Award

8:30am - 9:10am

City Room 1 & 2

Chair: Sarah Robertson

Session sponsored by



8:30 AM **Mark Baker**

Male Infertility: Biomarkers for the diagnosis and future prediction of men's health *abs# 69*

SRB - SRF Exchange Lecture

9:10am - 9:30am

City Room 1 & 2

Chair: Eileen McLaughlin

9:10 AM **Douglas Gibson**

Do intra-uterine androgens play a critical role in preparation for pregnancy in women? *abs# 70*

Morning Tea

9:30am - 10:00am

Hall H

ESA Clinical Symposium: Tumour profiling in endocrine cancer

10:00am - 11:30am

Halls L & M

Chair: Ann McCormack

Session sponsored by



10:00 AM **Graeme Eisenhofer**

Energy pathway metabolomics in hereditary pheochromocytomas and paragangliomas *abs# 71*

10:30 AM **Roderick Clifton-Bligh**

Biomarker discovery and application in Endocrine Cancers *abs# 72*

11:00 AM **Michael Tuttle**

Tumour Profiling in Thyroid Cancer *abs# 73*

SRB - Newcastle Award

9:50am - 11:30am

Chairs: Brett Nixon & Shaun Roman

Riverbank 2 & 3

Session sponsored by



9:50 AM **Pradeep Tanwar**

Endometrial hyperplasia and cancer: Side effects of miscommunication *abs# 74*

10:15 AM **Kirsty A Walters**

Androgen Action and Ovarian Function in Health and Disease *abs# 75*

10:40 AM **Kirsty G Pringle**

Why boys are more likely to be born preterm: a novel mechanism for maintaining the fetal membranes in pregnancy *abs# 76*

11:05 AM **Tanya Soboleva**

Uncovering new roles of chromatin: control of gene activation and splicing by testis-specific histone variant, mH2A.B/H2A.Lap1. *abs# 77*

ESA Basic Orals - Programming and reproduction

10:00am - 11:30am

City Room 1 & 2

Chair: Mitchell Lawrence & Kathryn Gatford

10:00 AM **Nicolette A Hodyl**

High circulating fetal progesterone elevates fetal free cortisol levels through cortisol displacement from corticosteroid-binding globulin *abs# 78*

10:15 AM **Lisa K Akison**

High maternal corticosterone levels during pregnancy programs sex-specific alterations in adrenal morphology and function in adult offspring of mice. *abs# 79*

10:30 AM **Brandon R Menzies**

Nutrition, growth and developmental rate affect the timing of mammalian growth axis maturation *abs# 80*

10:45 AM **Manpreet Kaur**

Restricted placental growth does not reduce spontaneous activity in the adolescent or young adult sheep. *abs# 81*

11:00 AM **Genia Burchall**

Comprehensive Assessment of the Haemostatic System in Polycystic Ovarian Syndrome *abs# 82*

11:15 AM **Bridget Maher**

Bisphenol A and childhood overweight and obesity: is there a link? *abs# 83*

ESA Basic Symposium: Endocrinology and ageing

10:00am - 11:30am

Riverbank 1

Chairs: John Walsh & Kristy Brown

- 10:00 AM **Roger Smith**
Ageing at the Start of Life. *abs# 84*
- 10:30 AM **Ian M Chapman**
Ageing, appetite and body composition *abs# 85*
- 11:00 AM **Roger Reddel**
Telomere biology: endocrine diseases and cancer *abs# 86*

ESA Plenary Lecture

11:30am - 12:30pm

Halls L & M

Chair: Timothy Cole

- 11:30 AM **William Rainey**
Origins of Primary Aldosteronism *abs# 87*

SRB Orals - Meat and Livestock Award Finalists

11:30am - 12:30pm

Riverbank 2 & 3

Chairs: Chris Scott & Sara Edwards

Session sponsored by



- 11:30 AM **Katrina J Copping**
Fetal programming in 2yo calving heifers: Effects of maternal peri-conception and first trimester protein supplementation on progeny feedlot performance, appetite and carcass characteristics *abs# 88*
- 11:45 AM **Tamara Leahy**
Penicillamine attenuates the agglutination of ram sperm in capacitating media *abs# 89*
- 12:00 PM **Leila Arbabi**
Y2 Receptor ligands act within the median eminence to regulate Gonadotropin Releasing Hormone (GnRH) Secretion *abs# 90*
- 12:15 PM **Nicole A Bastian**
Regulation of Fibrillin Genes During Development of the Bovine and Human Ovary *abs# 91*

SRB - ANZPRA Award Finalists

11:30am - 12:30pm

City Room 1 & 2

Chairs: Stephen Tong & Jo James

Session sponsored by



11:30 AM **Mancy Tong**

Detection of aggregated transthyretin in placental extracellular vesicles: importance for preeclampsia *abs# 92*

11:45 AM **Rebecca Wilson**

Marginal zinc deficiency in mice during pregnancy and lactation reduces fetal growth and increases maternal blood pressure *abs# 93*

12:00 PM **Rachael Crew**

Dietary-induced obesity suppresses expression of the nuclear receptor *Reverba* in placenta and fetal liver; implications for circadian and metabolic development *abs# 94*

12:15 PM **Bridget Maher**

Prenatal exposure to the plasticizer bisphenol A (BPA) and adverse birth outcomes in human epidemiological studies *abs# 95*

SRB Orals - Oocyte Biology

11:30am - 12:30pm

Riverbank 1

Chairs: Christopher Grupen & Karla Hutt

11:30 AM **Laurin Lau**

NAD⁺ availability is critical for meiotic maturation in mouse oocytes *abs# 96*

11:45 AM **Wai Shan Yuen**

Plk1 is essential for establishing cortical actin polarity in mouse oocytes *abs# 97*

12:00 PM **Robert B Gilchrist**

Cumulin, an oocyte-secreted heterodimer of the transforming growth factor- β family, is a potent activator of granulosa cells and improves oocyte quality *abs# 98*

12:15 PM **Macarena Gonzalez**

Regulated expression of Heat Shock Proteins during ovulation and oocyte maturation. *abs# 99*

Lunch

12:30pm - 1:30pm

Hall H

ESA Meet the Professor Clinical: Adverse cardio-metabolic effects of glucocorticoid therapy

12:45pm - 1:30pm

Halls L & M

Chair: Mark Cooper

12:45 PM **A/Prof Morton Burt**, Department of Endocrinology, Flinders University

This conference acknowledges the sponsorship of



ESA Meet the Professor Basic: Metabolomics

12:45pm - 1:30pm

Riverbank 1

Chair: Frederik Steyn

12:45 PM **Darren Saunders**

Integrated Approaches to Understanding Cancer Metabolism. *abs# 100*

ESA - Bryan Hudson Clinical Awards

1:30pm - 3:30pm

Halls L & M

Chairs: Morton Burt & Phillip Wong

1:30 PM **Sally Abell**

Gestational diabetes mellitus and adverse pregnancy outcomes: the impact of different treatment targets at two major Australian maternity services. *abs# 101*

1:45 PM **Ingrid Bretherton**

Is Specificity Desirable in Urinary Free Cortisol Measurement? Comparison of 2 Immunoassays and Tandem Mass Spectroscopy. *abs# 102*

2:00 PM **Simon Carrivick**

Differential associations of ferritin and 25-hydroxyvitamin D with fasting glucose and diabetes risk in community dwelling older men. *abs# 103*

2:15 PM **Yi Xian Chan**

Neutral associations of testosterone, dihydrotestosterone and estradiol with fatal and non-fatal cardiovascular events, and mortality in men aged 17-97 years *abs# 104*

2:30 PM **Ada Cheung**

Effects of Androgen Deprivation on the Biomechanical Function of the Lower-limb Muscles during Gait in Men *abs# 105*

2:45 PM **Kathryn Hackman**

Poor glycaemic control is associated with decreased survival in patients with diabetes following lung transplantation *abs# 106*

3:00 PM **Sonali Shah**

The Mythology of Vitamin D Deficiency and Insufficiency *abs# 107*

3:15 PM **Moe Thuzar**

Effect of Glucocorticoid on Brown Adipose Tissue Function in Humans – A Randomised Double-blind Placebo Controlled Cross-over Study *abs# 108*

SRB Symposium: Immune and cytokine pathways in the reproductive tract

1:30pm - 3:30pm

Riverbank 2 & 3

Chairs: Brendan Waddell & Nicolette Hodyl

- 1:30 PM **Jeff Keelan**
Pharmacological strategies for the prevention of preterm birth *abs# 109*
- 2:00 PM **Mark Hedger**
Inflammation and male reproductive health *abs# 110*
- 2:30 PM **John E Schjenken**
Novel Mechanisms for Seminal Fluid Signalling in Reproduction *abs# 111*
- 3:00 PM **Ken Beagley**
Chlamydia infections in male koalas; impacts on spermatogenesis and reproductive outcomes *abs# 112*

SRB Symposium: Sex Determination and Gonadal Development

1:30pm - 3:30pm

City Room 1 & 2

Chairs: Ray Rodgers & Kate Loveland

- 1:30 PM **Dagmar Wilhelm**
New regulators of mammalian sex determination and gonad development *abs# 113*
- 2:00 PM **Lisa Schwanz**
Temperature-dependent sex determination in a variable world: mechanisms of a plastic response? *abs# 114*
- 2:30 PM **Karla Hutt**
Defining the mechanisms responsible for establishing and maintaining a pool of high quality oocytes. *abs# 115*
- 3:00 PM **Frank Grutzner**
Monotremes provide novel insights into mammalian reproduction and disease *abs# 116*

ESA Basic Symposium: Growth Hormone - A tale of mice and men.

1:30pm - 3:30pm

Riverbank 1

Chairs: Chen Chen & Craig Harrison

- 1:30 PM **Vita Birzniece**
Growth hormone doping in sport *abs# 117*
- 2:00 PM **Andrew Brooks**
Going downstream – how does GH binding activate JAK2 *abs# 118*
- 2:30 PM **Frederik Steyn**
Regulation of pulsatile growth hormone secretion: Lessons from the mouse *abs# 119*
- 3:00 PM **Kathryn Gatford**
GH in pregnancy – how does it change and what is it doing? *abs# 120*

Afternoon Tea

3:30pm - 4:00pm

Hall H

ESA - Mid-Career Award Lecture

4:00pm - 4:30pm

Halls L & M

Chair: Nicolette Hodyl

4:00 PM **Lisa Moran**

Assessment and management of obesity in Polycystic Ovary Syndrome *abs# 121*

SRB - David Healy New Investigator Award Finalists

4:00pm - 5:30pm

Riverbank 2 & 3

Chairs: James Deane & Caroline Gargett

4:00 PM **Xuan Sun**

TGFB1 is a key regulator of mammary gland macrophages during development and tumourigenesis *abs# 122*

4:15 PM **Manish Kumar**

Twists and Turns: Balanced Wnt signalling is essential for epididymal coiling. *abs# 123*

4:30 PM **Jyoti Goad**

Gone with the Wnt: Unopposed oestrogen leads to endometrial cancer by regulating Wnt signalling. *abs# 124*

4:45 PM **Siew L Wong**

Impaired embryo development due to oxidative stress can be normalised by BGP-15 treatment in vitro *abs# 125*

5:00 PM **Ella S Green**

Progesterone regulates regulatory T cell abundance and phenotype in the hormone environment of early pregnancy *abs# 126*

5:15 PM **Lisa Y.S. Lee**

The significance of aspartate in regulating blastocyst glucose metabolism *abs# 127*

ESA AGM

4:30pm - 5:30pm

Halls L & M

SRB Student Meeting

5:30pm - 6:30pm

Riverbank 2 & 3

ESA - SRB Conference Dinner

7:00pm - 10:30pm

Panorama Ballroom

Pre-dinner drinks served from 7.00pm – 7.30pm

Session sponsored by **AMGEN**

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 **Jinghua 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 (*Lasiiorhinus 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**
Pheochromocytoma 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

Panorama 1,2,3

Chair: Eileen McLaughlin

Session sponsored by 

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  Hall H

ESA - SRB Joint Symposium: Development programming of insulin resistance and cardiovascular disease

11:00am - 1:00pm

Panorama 1,2,3

Chairs: Mary Wlodek & Tod Fullston

Session sponsored by 

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

Room L2

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

Riverbank 4

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

City Room 1 & 2

Chairs: Roderick Clifton-Bligh & Chris White

Session sponsored by 

- 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

Riverbank 5

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

Riverbank 6, 7 & 8

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

Riverbank 4

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- κ B and I κ B α 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*

ESA Clinical Orals - Pituitary and Adrenal

2:00pm - 3:30pm

Room L1

Chair: Mark McLean

- 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 pheochromocytoma – 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*

ESA Clinical Orals - Clinical Highlights 2015

2:00pm - 3:30pm

Room L3

Chair: Sue Mei Lau & Don McLeod

- 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 adrenocorticotrophic 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

A/Prof Simon Barry, University of Adelaide *abs# 201*

Dr Leigh Guerin, Phillips Ormonde Fitzpatrick *abs# 202*

Dr Melanie Bagg, The Australian Science Media Centre *abs# 203*

Ryan Rose, Fertility SA *abs# 204*

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*

ESA-SRB Poster Listing

ESA Poster Session: Basic Science

Ki Yong Chung

Effects of dietary probiotic on growth performance, blood characteristics, and immune responses to a lipopolysaccharide challenge of Hanwoo heifers *abs# 206*

Amy Hsieh

Endocrine collateral damage *abs# 207*

Katharine E Johnson

Biological Activity and *In Vivo* Half-Life of Pro-Activin A *abs# 208*

James R McFarlane

Pharmacokinetics of Leptin in the Gut of Mice *abs# 209*

James McFarlane

Is oxytocin receptor SNP rs53576 a potential biomarker for psychological resilience? *abs# 210*

Makoto Ono

FGF9 activity from normal males and a 46,XY female *abs# 211*

Christopher J Scott

Castration Effects on the Expression of Kisspeptin and Rf-Amide Related Peptide-3 and their Co-Expression with Oestrogen Receptor α in the Ram Hypothalamus. *abs# 212*

Mary Wlodek

F2 fetal nephron number and weight benefits of endurance exercise training for females born small on high fat diet *abs# 213*

Veronica Wong

Pituitary Metastases *abs# 214*

ESA Poster Session: Clinical

Aleena S Ali

Management of Diabetes in Lung Transplant Recipients *abs# 215*

Imran Badshah

Time-specific basal cortisol cut-offs are a more reliable predictor of passing a Synacthen Stimulation Test than a single threshold level. *abs# 216*

Vita Birzniece

Tamoxifen reduces hepatic VLDL production in women: a possible GH-mediated mechanism for the development of fatty liver *abs# 217*

Ramy Bishay

Hypophosphataemic osteomalacia associated with iron infusions: Report of three cases *abs# 218*

Ramy Bishay

Extremes of autoimmune thyroid dysfunction associated with interferon treatment in one patient *abs# 219*

Kharis Burns

Iodine status in women of childbearing age *abs# 220*

Ada Cheung

Increased fat mass contributes to increased insulin resistance in men undergoing androgen deprivation therapy for prostate cancer. *abs# 221*

Ian m Collins

Ovarian Reserve of Women with Germline *BRCA1* or *BRCA2* Mutations. *abs# 222*

Casey de Rooy

Histological skeletal muscle changes in men with prostate cancer undergoing androgen deprivation therapy. *abs# 223*

Casey de Rooy

Quality of life decrements in men with prostate cancer undergoing androgen deprivation therapy. *abs# 224*

Sunita MC De Sousa

Comparison of the insulin tolerance test against the glucagon stimulation and short Synacthen tests in patients with suspected hypopituitarism. *abs# 225*

Chris Gilfillan

Fine needle aspiration of the thyroid: correlation with final histopathology in a series of 187 patients. *abs# 226*

Florence Gunawan

Transient Hypercalcaemia in Hospitalised Elderly Patients: an Association with Underlying Hyperparathyroidism and Vitamin D Supplementation *abs# 227*

Hui Yi HN Ng

Timely Commencement of Anti-resorptive Therapy Post Fragility Fractures: a Discrepancy Between Recommendations and Clinical Practice *abs# 228*

Julie Hetherington

"Parachutes to Prevention" – A conceptual change in acute adrenal insufficiency education *abs# 229*

Michelle Isaacs

A case of primary amenorrhoea and hyperandrogenism *abs# 230*

Michelle Isaacs

An Odd Hot Spot *abs# 231*

Tripti Joshi

Calcium stimulation test to localize insulinomas- Local centre experience *abs# 232*

Min Sun Kim

IGF-1/IGFBP-1 axis are closely associated with insulin secretion in Korean children. *abs# 233*

Elena R Kornaczewski

Utility of FDG-PET CT scanning in succinate dehydrogenase B mutation related lesions *abs# 234*

Melissa H Lee

Hypokalaemia Post-Saline Suppression Test in Primary Hyperaldosteronism *abs# 235*

Melissa Lee

Dilemmas In The Diagnosis Of Cushing's Syndrome In The Acutely Unwell Patient *abs# 236*

Jaime Lin

Treatment Resistant Papillary Thyroid Cancer *abs# 237*

Shao Feng Mok

Subclinical hypothyroidism in pregnancy related to TSH receptor blocking antibodies: An unique clinical conundrum *abs# 238*

N Shankara Narayana

Accuracy of Direct Progesterone Immunoassay vs Liquid Chromatography Mass Spectrometry *abs# 239*

Marni A Nenke

Paradoxical reduction in corticosteroid-binding globulin cleavage is seen in alpha-1 antitrypsin deficiency: implications for cortisol homeostasis *abs# 240*

Luisa Olaya

The Prevalence of BRAF V600 Mutations and its Associated Histopathology Features in Papillary Thyroid Carcinoma in New Caledonia and Australia *abs# 241*

Karl Peters

Effect of denosumab on glucose control in subjects with diabetes or pre-diabetes from the FREEDOM study *abs# 243*

Jeyakantha Ratnasingam

Predictors For Surgically Resected Non-Functioning Pituitary Adenoma Requiring Secondary Intervention *abs# 244*

Emma Scott

Characteristics, Diagnoses and Clinical and Genetic Outcomes of Patient Population Attending a Multidisciplinary Familial Endocrine Neoplasia Clinic *abs# 245*

Radhika V Seimon

Intermittent moderate energy restriction improves weight loss efficiency in diet-induced obese mice *abs# 246*

Divya Srivastava

Radioactive Iodine ablation of differentiated Thyroid cancer as per 2009 ATA guidelines and future directions: single centre experience –retrospective review. *abs# 247*

Thomas Upton

Acromegaly: Outcomes from a single pituitary surgeon service in Christchurch New Zealand *abs# 248*

Anna K Watts

Graves' Dermopathy: a report of three cases *abs# 249*

Anna Watts

Regrowth of non-functioning pituitary macroadenomas undergoing surgery in a single Australian centre. *abs# 250*

Nisha Venkatesh

Examining the indications and results of bone densitometry performed in a large metropolitan teaching hospital. *abs# 251*

Jasmine J Zhu

Post-Partum Osteoporosis Due To Systemic Mastocytosis: 2 Case Studies *abs# 252*

ESA Poster Session: Clinical Case Study**Dushyanthy Arumugam**

Hurt in the Sternum *abs# 253*

Kharis Burns

Desmopressin, Oxytocin and a Failing Heart *abs# 254*

Daniela Chan

A rare type of aggressive thyroid cancer : review of the literature for treatment options *abs# 255*

Anna Galligan

Undiagnosed Asymptomatic Pheochromocytoma Causing Intra- Operative Haemodynamic Crisis in a Patient with Type One Diabetes. *abs# 256*

Rinky Giri

Hypoglycemic Encephalopathy and the Severity of Brain Injury: A Case Report *abs# 257*

Thomas Hadwen

A case of frontal bone aneurysmal bone cyst in association with polyostotic fibrous dysplasia *abs# 258*

Jessica E Harris

MEN1 and paraganglioma: expanding the clinical spectrum of *MENIN* mutations. *abs# 259*

Brianna Hatswell

Tetany Associated with Teriparatide Therapy: A Case Report *abs# 260*

Alice Hong

Bilateral macronodular adrenal hyperplasia and systematic testing for aberrant receptors: a bumpy journey *abs# 261*

P M Jansen

Multiple paragangliomas in a 17-year old male with post-micturition symptoms *abs# 262*

Pieter M Jansen

Hemiballismus: a rare complication of diabetic nonketotic hyperosmolar state *abs# 263*

Angela S Lee

Euglycaemic diabetic ketoacidosis in a young adult with type 1 diabetes and an eating disorder *abs# 264*

Melissa H Lee

Double Trouble In The Pituitary: A Case Report *abs# 265*

Kristina McDonnell

An unusual cause of recurrent severe hypokalaemia *abs# 266*

Emily Meyer

Pituitarius, where art thou? *abs# 267*

Tara Naige

Flushed with excitement – a heartfelt case of carcinoid syndrome *abs# 268*

Anna K Watts

Thyroid hormone resistance, a case report *abs# 269*

Sharon Yeoh

Vitamin C deficiency: an overlooked risk factor for impaired wound healing in patients with diabetes mellitus *abs# 271*

SRB Poster Session: Embryogenesis, Assisted Reproductive Technology and Stem Cells**Daniel Barry**

Development of Ovine and Murine Embryos Under Micro-Gravity Conditions at the International Space Station *abs# 272*

Cassandra O. Carbone

Addition of a Mitochondrial Antioxidant to Culture Media Improves Embryo Development and Metabolism in an Aged Mouse Model *abs# 273*

Miaoxin Chen

Decreased antioxidative gene expression in skeletal muscle in individuals conceived by In-Vitro Fertilisation (IVF) *abs# 274*

Sangrae Cho

Efficacy of a Cue-Mate Intravaginal Insert and Injection of Prostaglandin F_{2α} For Synchronizing Estrus in Hanwoo Cattle *abs# 275*

Suyinn Chong

Epigenetic and microRNA-mediated regulation of adult hippocampal VGLUT2 expression following early prenatal ethanol exposure *abs# 276*

Sara J Edwards

Factors contributing to the poor reproductive performance of ewe lambs *abs# 277*

Consuelo Estrella

Differential maternal and paternal genome effects on circulating thyroid hormone concentrations and deiodinase expression in the midgestation fetus *abs# 278*

Rebecca Kelley

Consequences of culturing preimplantation embryos individually *abs# 279*

Yan Li

Effect of DNA methyltransferases on the reprogramming of methylation during early mouse embryo development *abs# 280*

Mark B Nottle

Effect of thyroid hormones on porcine oocyte maturation in vitro. *abs# 281*

Mark B Nottle

Multipotent cell types in primary fibroblast cell lines used to clone pigs using somatic cell nuclear transfer. *abs# 282*

Sangho Roh

Thiazovivin, a Rho kinase inhibitor, improves stemness maintenance of bovine embryo-derived pluripotent stem cells under chemically defined culture conditions *abs# 283*

Cheow Yuen (Tiffany) Tan

Grey Level Co-occurrence Matrix (GLCM): A novel method to access the texture of mouse embryos derived from assisted reproductive technology (ART) *abs# 284*

Emma K Tregoweth

Hyperglycaemic stress increases blastomere heterogeneity in pre-implantation mouse embryos *abs# 285*

Jiayi Wan

The reduction in melatonin level may contribute to the pathogenesis of ovarian cancer *abs# 286*

SRB Poster Session: Growth factors/Cytokines/Immune system**Christina D Marth**

The influence of ovarian hormones on the uterine immune response *abs# 287*

Nour Nicolas

Testicular activin A during the development of autoimmune orchitis in mice abs# 288

Michael W Pankhurst

Anti-Müllerian Hormone (AMH) has an increased rate of conversion to the active form after puberty. *abs# 289*

SRB Poster Session: Testis development and Male Reproductive Tract**Michael J Bertoldo**

In Utero Exposure to the Insulin Sensitising Drug Metformin Reduces the Fertility of Male Offspring abs# 291

Yu Chen

Transcriptome analysis of the developing phallus after hormonal manipulation in a marsupial *abs# 292*

Mariana M Neves

Proteins expression in caput and corpus epididymis of *Akodon cursor* (Rodentia, Cricetidae) *abs# 293*

Patrick Western

A combination of growth factors is sufficient to promote testis development in the absence of *Sry*. *abs# 294*

Rukmali Wijayarathna

Activin over-expression and subsequent testicular tumour development is associated with androgen deficiency and structural alterations in the reproductive tract of adult male *Inha*^{-/-} mice *abs# 295*

SRB Poster Session: Oocyte/Follicle development/Corpus luteum**Linda Wu**

Hypothalamic endoplasmic reticulum stress disrupts estradiol production, ovulation and cyclicity in a novel obese mouse model-Bloppy mouse. *abs# 290*

Mohammad Asaduzzaman

Quantification of granulosa cells in mouse ovarian follicles *abs# 296*

Thao D Dinh

The effect of *Gas5* lncRNA on oocyte maturation and embryo development *abs# 297*

John Drummond

Effect of ovarian disaggregation on murine follicle yield and quality *abs# 298*

Christopher G Grupen

The effects of L-carnitine treatment prior to IVF on porcine oocyte maturation and post-fertilization events *abs# 299*

Seunghoon Lee

Verification of Connexin43 in porcine oocytes during in vitro maturation *abs# 300*

Seng H Liew

BMF regulates primordial follicle loss during adolescence *abs# 301*

James R McFarlane

The effect of impaired function of BMPs by passive immunization on the protein expression of BMPR1B, FSHR and LHR in the mouse ovary *abs# 302*

Sheena L.P. Regan

Expression profile of reproductive receptors during aging of the human ovarian follicle *abs# 303*

Dulama Richani

A Sensitive Mass Spectrometry Method for the Simultaneous Quantification of Adenosine Nucleotides in Oocytes and Granulosa Cells *abs# 304*

Angelique Riepsamen

The pan-sirtuin inhibitor, nicotinamide, disrupts the meiosis I-to-meiosis II transition in mouse oocytes *abs# 305*

Mitchell D Ross

Insulin impacts cumulus oocyte complex maturation and early embryo development in vitro *abs# 306*

Alice C Weaver

Plasma Anti-Mullerian Hormone is related to oestrus expression in lactating sows *abs# 307*

SRB Poster Session: Pregnancy/Parturition/Placenta

Prabha Andraweera

INSR rs2059806 polymorphism and the risk of preeclampsia *abs# 308*

Nadia Bellofiore

Pseudopregnancy Induction in the Spiny Mouse (*Acomys cahirinus*) *abs# 309*

Tina Bianco-Miotto

Predicting Pregnancy Complications from Maternal Buffy Coat DNA at 15 Weeks Gestation *abs# 310*

Paul A Dawson

Molecular analysis of the human placental SLC13A4 sulphate transporter: relevance to fetal growth and development. *abs# 311*

Brooke Dearlove

Feeding caffeine to gestational sows reduces stillbirth rates *abs# 312*

Jo James

Exploring the potential of mesenchymal stem cell transplantation into human placentae *in vitro abs# 313*

Phil Knight

RNA interference-mediated knockdown of BMP receptors in cultured bovine theca cells: effects on androgen secretion and cell proliferation/survival *abs# 314*

Hyun-Joo Lim

Association between growth rates, age at first calving and subsequent fertility in Holstein heifers *abs# 315*

Eugenie R Lumbers

Maternal Obesity negatively impacts on fetal kidney development, maternal health and birth outcomes in an Indigenous Australian cohort *abs# 316*

Benjamin Mayne

Sex differences in the human placental methylome *abs# 317*

Nurul NHMZ Mohamad Zainal

Identification of salivary and placental proteins associated with subsequent allergic disease in childhood *abs# 318*

William H E J Van Wettere

Plasma Anti-Mullerian Hormone and *in vitro* embryo quality in lactating sows *abs# 319*

SRB Poster Session: Spermatogenesis/Sperm function

Jaleh Barzideh

Chromatin Pattern and Status of Global DNA Methylation in Human Spermatozoa *abs# 320*

Zamira Gibb

ALDH2 protects stallion spermatozoa from lipid peroxidation-induced loss of motility *abs# 321*

Seyedeh Shaghayegh Saeidi

The Role of ESRP1 During Gametogenesis *abs# 322*

Chang-Seok Park

Sperm motility of frozen-semen derived from epididymis in young bull and blastocyst

development after in vitro fertilization in Hanwoo *abs# 323*

Farnaz Shapouri

Tob1 protein is a novel regulator of gonadal function *abs# 324*

SRB Poster Session: Uterus/Placenta/Implantation

Sarah J Delforce

Effect of low oxygen on the pro-angiogenic pathways of the renin angiotensin system (RAS) in a human trophoblast cell line *abs# 325*

Harriet C Fitzgerald

An altered proliferative phase uterine microenvironment in idiopathic infertile women *abs# 326*

Bogdan Gavrioliuk

Investigation of the production and signalling of insulin in the endometrium *abs# 327*

Sadaf Kalam

VAMP2 and Syntaxin 3 coordinate vesicle machinery in uterine epithelial cells during early pregnancy in the rat. *abs# 328*

Megan Lim

Identification of Haemoglobin and possible role in pre-implantation embryo development *abs# 329*

Jared Mamrot

Quantitative assessment of uterine receptivity prior to embryo transfer increases implantation rate to >95% *abs# 330*

Hong PT Nguyen

Proteomic and functional characterization of human endometrial epithelial exosomes reveal cargo proteins essential for embryo-maternal interactions *abs# 331*

Leigh Nicholson

Suggested Role for Alpha-Parvin and MAPK/Erk Phosphorylation in Focal Adhesion Disassembly During Early Pregnancy in the Rat *abs# 332*