

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

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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