SRB Council Meeting

11:00AM - 1:15PM
Riverbank Boardroom

ESA Council Meeting

1:30PM - 4:00PM
Riverbank Boardroom

SRB Symposium - 50 Years of Australasia leading the way in reproductive biology I

1:15PM - 3:30PM
Hall A

Chair: John Hearn

This conference acknowledges the sponsorship of

1:15 PM  John Hearn (Vice Chancellor-Chief Executive, Worldwide Universities Network (WUN) Chair, Australia Africa Universities Network (AAUN))
Welcome and Introduction

1:30 PM  Mark Hedger (Hudson Institute of Medical Research, Clayton, VIC, Australia)
50 Years of Male Reproduction abs# 1

2:00 PM  Darryl Russell (School of Paediatrics and Reproductive Health, Robinson Institute, University of Adelaide, Adelaide, SA, Australia)
50 Years of Australian Leadership in Ovarian / Oocyte biology abs# 2

2:30 PM  Lois Salamonsen (The Hudson Institute of Medical Research, Melbourne, VIC, Australia)
The UTERUS: from near obscurity to frontline of reproductive success over 50 years abs# 3

3:00 PM  Sarah Robertson (The Robinson Institute and School of Paediatrics and Reproductive Health, University of Adelaide, Adelaide, Australia)
Reproductive Immunology abs# 4

Women, leadership, careers and life: a leadership development workshop

2:00PM - 3:30PM
Riverbank 2,3,4

Chair: Vicki Clifton

ESA Afternoon Tea

3:30PM - 4:00PM
Riverbank Foyer
SRB Afternoon Tea
3:30PM - 4:00PM
Hall A Foyer

ESA Senior Plenary Lecture
4:00PM - 4:30PM
Hall B
Chair: Warrick Inder

This conference acknowledges the sponsorship of

4:00 PM  Rob McLachlan (Hudson Institute of Medical Research, Monash University, Melbourne, VIC, Australia)
Planned paternity: A healthy child when - and only when - desired abs# 5

SRB Symposium - 50 years of Australasia leading the way in reproductive biology II
4:00PM - 6:00PM
Hall A
Chairs: John Hearn

This conference acknowledges the sponsorship of

4:00 PM  Marilyn Renfree (School of BioSciences, The University of Melbourne, Melbourne, Victoria, Australia)
Lactation versus placentation: diverse reproductive strategies of mammals abs# 6

4:30 PM  Christopher G Grupen (Sydney School of Veterinary Science, Faculty of Science, The University of Sydney, Camden, NSW, Australia)
Legacies of the revolutions and evolutions in animal production abs# 7

5:00 PM  Roger Smith (University of Newcastle, Newcastle, NSW, Australia)
A video guide to research success, mentoring, collaboration and happiness. Lessons from the SRB Founding Mother on how to create a successful research career. “You can do it if you put your heart into it!”. abs# 8

5:30 PM  Jock Findlay (Hudson Institute of Medical Research, Clayton, VIC)
Reproductive Health Australia Launch
ESA 'Year In' Session

4:45PM - 6:00PM
Hall B

Chair: Morton Burt

4:45 PM  **Priya Sumithran** *(Austin Health, VIC)*
Year in Obesity  *abs# 9*

5:05 PM  **David Torpy** *(Endocrine and Metabolic Unit, Royal Adelaide Hospital, Adelaide, SA, Australia)*
Year in Cushing’s Disease  *abs# 10*

5:25 PM  **Emma Duncan** *(Queensland University of Technology and Royal Brisbane Women's Hospital, Brisbane, QLD, Australia)*
The Year in Osteoporosis and other Bone Diseases  *abs# 11*

Welcome Function

6:00PM - 7:30PM
Foyer A-B

SRB Birthday Dinner

7:30PM - 11:30PM
2KW Bar

*This conference acknowledges the sponsorship of*
Ipsen Breakfast Symposium - Pituitary Tumour Genetics - where are we in 2018

7:00AM - 8:00AM

Chairs: Rory Clifton-Bligh & Christopher Yates

Presenter: Ann McCormack

Breakfast served from 6:45am

EISAI Breakfast Symposium - What’s new in 2018 - A practical guide to prescribing Tyrosine Kinase Inhibitors (TKIs)

7:00AM - 8:00AM

Chair: Bruce Robinson

Presenters: Liza Nery, Bruce Robinson & Duncan Topliss

Breakfast served from 6:45am

Joint Welcome

8:30AM - 8:45AM

Warrick Inder (ESA President)

Chris O’Neill (SRB President)

ESA Harrison Plenary

8:45AM - 9:45AM

Chair: Warrick Inder

8:45 AM Peter Fuller (Centre for Endocrinology and Metabolism, Hudson Institute of Medical Research, Melbourne, VIC, Australia)

Actions and Interactions of Aldosterone and the Mineralocorticoid Receptor abs# 12
ESA Servier Award Lecture

9:45AM - 10:00AM

Chair: Warrick Inder

This conference acknowledges the sponsorship of

9:45 AM  Sabashini Ramchand (Department of Medicine - Austin Health, The University of Melbourne, Melbourne, Victoria, Australia)
Premenopausal women with early breast cancer treated with estradiol suppression have severely deteriorated bone microstructure. abs# 13

Genea Symposium - Golden Jubilee Session - Significant advances in ART

8:45AM - 10:15AM

Chairs: John Carroll & Michelle Lane

This conference acknowledges the sponsorship of

8:45 AM  David Whittingham (University of London, London, UK)
A perspective of the contribution of my past research to current reproductive biology and medicine abs# 14

9:15 AM  Alan Trounson (Hudson Institute for Medical Research, Melbourne, VIC, Australia)
Pushing the boundaries of biology and technology: A non-linear model with rewards and tensions abs# 15

9:45 AM  Rob Norman (School of Paediatrics and Reproductive Health, The University of Adelaide, Adelaide, SA, Australia)
Significant Advances in ART – under the “The clinical picture” abs# 16

ESA-SRB Morning Tea

10:00AM - 10:30AM

ESA Clinical Symposium: Growth Hormone - Management of Excess and Deficiency

10:30AM - 12:00PM

Chair: Ann McCormack

10:30 AM  Aart Jan van der Lely (Erasmus MC, Rotterdam, Netherlands)
The GH, IGF-I Insulin axis abs# 17

11:00 AM  Morton Burt (Southern Adelaide Diabetes and Endocrine Services, Repatriation General Hospital, Adelaide, SA, Australia)
Integrating pasireotide and pegvisomant into an acromegaly treatment algorithm abs# 18
11:30 AM  **Ken Ho**  (St. Vincent’s Hospital, Garvan Institute of Medical Research and the University of New South Wales, Sydney, NSW, Australia)  
Growth Hormone Deficiency in Adults: Who and How to Treat  
*abs# 19*

**ESA Novartis Junior Scientist (Basic Science)**

10:30AM - 12:00PM  
Riverbank 3

Chairs: Vicki Clifton & Peter Fuller

This conference acknowledges the sponsorship of  

10:30 AM  **Laura H Porter**  (Monash University, Clayton, VIC, Australia)  
M.G. Lawrence, C. Pezaro, H. Thorne, D. Murphy, M. Frydenberg, D. Clouston, R.A. Taylor, G.P. Risbridger  
The prostate cancer sub-pathology intraductal carcinoma of the prostate is a high-risk feature of localised prostate cancer  
*abs# 20*

10:45 AM  **Esha T Shah**  (Ghrelin Research Group, Institute of Health and Biomedical Innovation-Translational Research Institute, Queensland University of Technology, Woolongabba, Queensland, Australia)  
A role for the long non-coding RNA GHRLOS in cancer  
*abs# 21*

11:00 AM  **Sarah M Bernhardt**  (Discipline of Surgery, School of Medicine, The University of Adelaide, Woodville, SA, Australia)  
P. Dasari, D.J. Glynn, A.R. Townsend, T.J. Price, W.V. Ingman  
Ovarian hormones modulate the expression of genes involved in breast cancer diagnosis  
*abs# 22*

11:15 AM  **Danielle J Burgess**  (School of Biomedical Science, University of Queensland, St Lucia, Queensland, Australia)  
D. Lucia, K.M. Moritz, J.S. Cuffe  
Periconceptional ethanol exposure results in altered behaviour and HPA activity in a rodent model.  
*abs# 23*

11:30 AM  **Janaththani Panchadsaram**  (Australian Prostate Cancer Research Centre – Queensland, School of Biomedical Sciences, Institute of Health and Biomedical Innovation, Queensland University of Technology, Woolongabba, QLD, Australia)  
IRX4, a novel mediator of androgen receptor transcriptome in prostate cancer  
*abs# 24*

11:45 AM  **John-Paul Fuller-Jackson**  (Metabolic Disease and Obesity Program, Biomedicine Discovery Institute, Department of Physiology, Monash University, Clayton, Victoria, Australia)  
A. Dordevic, I.J. Clarke, H. Truby, B.A. Henry  
Effect of sex and stage of menstrual cycle on cold- and meal-induced brown adipose tissue thermogenesis in humans  
*abs# 25*
SRB Orals - Ovarian and Oocyte Biology

10:30AM - 12:00PM

Chairs: Karla Hutt & Michael Bertoldo

10:30 AM Michael W Pankhurst (Department of Anatomy, School of Biomedical Sciences, University of Otago, Dunedin, New Zealand)
Accelerated ovarian reserve depletion has no effect on fertility in female Amh−/− mice. abs# 26

10:45 AM Dulama Richani (School of Women's and Children's Health, UNSW Sydney, Kensington, NSW, Australia)
The oocyte-secreted factors GDF9, BMP15 and cumulin regulate inhibin and activin production in human granulosa cells abs# 27

11:00 AM Kylie R Dunning (University of Adelaide, Adelaide, SA, Australia)
The role of Semaphorin 7a during ovulation abs# 28

11:15 AM Avishkar Saini (Obstetrics and Gynaecology, ARC Centre for Nanoscale BioPhotonics, University of Adelaide, Adelaide, South Australia, Australia)
K. Dunning, Reineck, A. Orth, J. Thompson
Effects of different wavelengths of light at the same energy on the development of preimplantation embryos abs# 29

11:30 AM Deepak Adhikari (Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Clayton, VIC, Australia)
J. Liu, U. Alzubaidi, Q. Zhang, W. Yuen, J. Carroll
Mitochondrial functions during oocyte development: beyond ATP abs# 316

11:45 AM Angelique H Riepsamen (Fertility and Research Centre, School of Women's and Children's Health, University of New South Wales, Sydney, NSW, Australia)
Oocyte-secreted factors measured in serum of women correlate with reproductive potential abs# 31

SRB Orals - Testis, Male Reproductive Tract, and Sperm Biology

10:30AM - 12:00PM

Chairs: Mark Hedger & Jessica Dunleavy

10:30 AM Lee Smith (MRC Centre for Reproductive Health, University of Edinburgh, Edinburgh, UK)
Manipulating testicular androgen production to promote lifelong male health abs# 32

10:45 AM Penny AF Whiley (Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia)
L. O'Donnell, S.C. Moody, P. Western, K.L. Loveland
Activin A target genes in fetal testis: clues to male infertility abs# 33

11:00 AM Liza O'Donnell (Centre of Reproductive Health, Hudson Institute, VIC)
Weidner, T. Diemer, A. Pilatz, L.B. Smith, P.G. Stanton
Sertoli cell proteins in testicular interstitial fluid; potential mediators of seminiferous tubule-interstitial cell communication abs# 34

11:15 AM Wei Zhou (Priority Research Centre for Reproductive Science, The University of Newcastle, Newcastle, New South Wales, Australia)
S.J. Stanger, A.L. Anderson, G.N. De Iuliis, A. McCluskey, E.A. McLaughlin, M.D. Dun, B. Nixon
Mechanistic insights into epididymosome-sperm interactions abs# 35

11:30 AM David J Sharkey (Robinson Research Institute and Adelaide Medical School, The University of Adelaide, Adelaide SA 5005, Australia)
N. Chowdhury, C.G. Print, M. Hull, S.A. Robertson
Seminal fluid may alter cytokine and chemokine gene expression in human endometrium after coitus abs# 36

11:45 AM Kevin J Selva (Dept. of Microbiology & Immunology, Peter Doherty Institute for Infection and Immunity, Melbourne, Victoria, Australia)
S.J. Kent, M.S. Parsons
Characterization of seminal plasma anti-HIV-1 antibodies abs# 37

SRB Founders’ Oration and Medal Lecture
12:00PM - 1:00PM
Hall C
Chair: Chris O’Neill

This conference acknowledges the sponsorship of

12:00 PM Eileen McLaughlin (University of Auckland, Auckland City, Auckland, New Zealand)
Living with the enemy: germ cell survival in the 21st century abs# 38

ESA and ENSA Lunch
12:00PM - 1:00PM
Hall G/F

ESA Meet The Professor - Susan Mandel - Ultrasound of diffuse thyroid disorders
12:15PM - 1:00PM
Hall E 2/3
Chair: Christopher Gilfillan

SRB Lunch
1:00PM - 1:40PM
Riverbank 3

ESA Clinical Orals - Bone
1:00PM - 2:30PM
Riverbank 2
Chairs: Bronwyn Crawford & Jeffrey Zajac

1:00 PM  **Anne Trinh** *(Monash Health, Clayton, Victoria, Australia)*  
P. Wong, M.C. Fahey, P.R. Ebeling, P.J. Fuller, F. Milat  
The Muscle-Bone relationship in Cerebral Palsy  *abs# 39*

1:15 PM  **Thomas McFarlane** *(Department of Medicine (Austin Health), The University of Melbourne, Heidelberg, VIC, Australia)*  
Bone microarchitecture in transgender individuals on established cross-sex hormone therapy: A controlled cross-sectional study.  *abs# 40*

1:30 PM  **Georgia Mohler** *(School of Medicine, University of Tasmania, Hobart, Tasmania, Australia)*  
V. Parameswaran, J. Burgess  
The evolution of primary hyperparathyroidism in MEN 1  *abs# 41*

1:45 PM  **John W.P. Wong** *(Royal Melbourne Hospital, Parkville, Victoria, Australia)*  
R.V. Dave, A. Giang, J.A. Miller, G. Mann  
Adjuvant endocrine therapy in non-metastatic breast cancer: an opportunity to ascertain bone health  *abs# 42*

2:00 PM  **Lydia Lamb** *(Department of Endocrinology and Diabetes, Sir Charles Gairdner Hospital, Perth, Western Australia, Australia)*  
A. Prins, S.J. Brown, J.P. Walsh, E. Lim  
Mechanism of hypercalcaemia in patients with primary hyperparathyroidism: role of 1,25(OH)₂D  *abs# 43*

2:15 PM  **Hanh H Nguyen** *(Department of Medicine, Monash University, Clayton, Victoria, Australia)*  
H. Hashimura, P. Wong, B.J. Strauss, P.R. Ebeling, F. Milat, A. Vincent  
Degraded Trabecular Bone Score is common in Young Adults with Premature Ovarian Insufficiency  *abs# 44*

**ESA Basic Science Orals - Hormone Dependent Cancer**

1:00PM - 2:30PM  
Hall E1

Chairs: Mitchell Lawrence & Luke Selth

1:00 PM  **Gerard A Tarulli** *(School of BioSciences, The University of Melbourne, Melbourne, VIC, Australia)*  
Androgen receptor signalling promotes luminal differentiation in mammary epithelial cells  *abs# 45*

1:15 PM  **Roxanne Toivanen** *(Peter MacCallum Cancer Centre, Melbourne, VIC, Australia)*  
Pathological analyses for the early detection of treatment-related neuroendocrine prostate cancer.  *abs# 46*

1:30 PM  **Theresa E Hickey** *(Dame Roma Mitchell Cancer Research Laboratories, Dept. of Medicine, University of Adelaide, Adelaide, South Australia, Australia)*  
I. Denis, L. Selth, J.L. Robinson, H. Mohammed, W.D. Tilley, J.S. Carroll  
The forkhead transcription factor FOXA1 directs an oncogenic androgen receptor cistrome in estrogen receptor negative breast cancer cells  *abs# 47*
Novel nuclear receptor targeted treatments for triple negative breast cancer abs# 48

The _Rag1^−/−_ mouse: establishing links between obesity and prostate cancer abs# 49

Inherent prostate contractility is significantly increased in men with benign prostatic hyperplasia and is regulated by the peptide hormone oxytocin abs# 50

**ESA Translational Symposium - Men's Health**

1:00PM - 2:30PM Hall C

Chairs: Mathis Grossmann & Gail Risbridger

1:00 PM **Gary Wittert** (Freemasons Foundation Centre for Men's Health Research and Discipline of Medicine, University of Adelaide, SA, Australia)
Complications of Obesity in Men abs# 51

1:30 PM **Ada Cheung** (Department of Medicine (Austin Health), The University of Melbourne, Heidelberg, VIC, Australia)
Androgen deprivation therapy for prostate cancer: mitigating adverse-effects. abs# 52

2:00 PM **Rob McLachlan** (Hudson Institute of Medical Research, Melbourne, VIC, Australia)
Infertile update: male evaluation, management and outcome abs# 53

**SRB Hudson ECR/MCR Poster Prize Finalists Lightning Talks**

1:10PM - 1:40PM Riverbank 3

Chairs: Kate Loveland & Andrew Pask

Lunch Served outside this room for attendees of this session

1:10 PM **Urooz a Sarma** (Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University, Melbourne, Victoria, Australia)
Chlamydia infection damages the ovary and depletes the ovarian reserve in mice abs# 54

1:13 PM **Caitlin G Chambers** (Discipline of Biology, School of Environmental and Life Sciences, University of Newcastle, Callaghan, New South Wales, Australia)
The consequences of multigenerational exposure to acrylamide on DNA damage in the male germ line abs# 55
1:16 PM Carolina Lliberos Requesens (Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University, Clayton, VIC, Australia) 
S.H. Liew, A. Mansell, S. Gerondakis, K. Hutt 
The ovarian follicle reserve is preserved in inflammasome-deficient mice abs# 56

1:19 PM Anastasia Christine Kleinert (CRH, Hudson Institute of Medical Research, Melbourne, VIC, Australia) 
N. Nicolas, S. Bhushan, E. Wahle, D.C. Fietz, M. Bergmann, K.A. Loveland, A. Meinhardt, M.P. Hedger, M. Fijak 
Investigation of intratesticular inflammatory responses in humans and mice implicates activin A as a potential inducer of fibrosis in the testis abs# 57

1:22 PM Anya L Arthurs (University of Newcastle, Newcastle, NSW, Australia) 
S.J. Delforce, E.R. Lumbers, K.G. Pringle 
The effects of placental miRNAs predicted to target the placental renin-angiotensin system on trophoblast proliferation abs# 58

1:25 PM John E Schjenken (Robinson Research Institute and Adelaide Medical School, The University of Adelaide, Adelaide, South Australia, Australia) 
E.S. Green, H.Y. Chan, P. Chin, D.J. Sharkey, S.A. Robertson 
Sperm contribute to the maternal neutrophil and T cell responses in early mouse pregnancy abs# 59

1:28 PM Jessica Stringer (Department of Anatomy and Developmental Biology, Monash University, Clayton, Victoria, Australia) 
N. Zerafa, K. Hutt 
DNA repair mechanisms responsible for safeguarding oocyte quality and offspring health abs# 60

1:31 PM Michelle Van Sinderen (Department of Molecular and Translational Medicine, Monash University, Clayton, VIC, Australia) 
M. Griffiths, K. Niven, E. Dimitriadis 
miR-29c overexpression in endometrial cancer reduced proliferation and increased apoptosis and altered cell cycle and migration related genes abs# 61

SRB AGM

1:40PM - 2:00PM Riverbank 3

ESA-SRB Afternoon Tea

2:30PM - 3:00PM Hall G/F
ESA Clinical Orals - Outstanding Clinical Abstracts

3:00PM - 5:00PM

Hall C

Chairs: Vita Birzniece & Ken Ho

Paul Lee Outstanding Abstract Award Winner

3:00 PM

Warrick J Inder (Diabetes and Endocrinology, Princess Alexandra Hospital, Woolloongabba, QLD, Australia)
The effect of acute and chronic glucocorticoid exposure on the Thrombospondin-1:Osteocalcin ratio in humans abs# 62

3:15 PM

Brittany Croft (Department of Molecular & Translational Science, Monash University, Melbourne, Victoria, Australia)
Human and mouse FGF9 mutations affect male sex determination abs# 63

3:30 PM

Jasna Aleksova (Department of Medicine, Monash University, Melbourne)
P.R. Ebeling, F. Milat, G. Elder
Patients on dialysis have markedly abnormal cortical hip parameters by dual-energy X-ray absorptiometry abs# 64

3:45 PM

Bu Yeap (The Medical School, University of Western Australia, Perth, WA, Australia)
M.W. Knuiman, D.J. Handelsman, K.K. Ho, J. Hui, M.L. Divitini, G.M. Arscott, B. McQuillan, J. Hung, J.P. Beilby
Polymorphisms in the 5α-reductase gene (SRD5A2) modulate serum testosterone, dihydrotestosterone and sex hormone-binding globulin, and polymorphisms in the aromatase gene (CYP19A1) modulate serum estradiol and luteinising hormone in men abs# 65

4:00 PM

Shaghayegh Norouzi (University of Tasmania, Launceston, TAS, Australia)
S. Myers
Zinc is an insulin mimetic that regulates insulin signalling pathways and glycaemic control in skeletal muscle abs# 66

4:15 PM

Jacqueline Hawthorne (Hunter New England Health, Newcastle, NSW, Australia)
C. Rowe, S. Arthurs, C. O'Neill, R. Carroll, K. Wynne, C. Bendinelli
High-dose pre-thyroidectomy cholecalciferol reduces postoperative hypocalcaemia when stratified by PTH status a randomized double blinded placebo-controlled trial abs# 67

4:30 PM

Teresa Lam (Department of Diabetes and Endocrinology, Blacktown Hospital, Blacktown, NSW, Australia)
A liver mediated mechanism for loss of muscle mass during androgen deprivation therapy abs# 68

4:45 PM

Hikaru Hashimura (Endocrinology, Monash Health, Clayton)
J. Shen, P. Fuller, N. Chee, J. Doery, W. Chong, K. Choy, S. Gwini, J. Yang
Saline suppression test parameters may predict bilateral subtypes of primary aldosteronism abs# 69
SRB Symposium - Golden Jubilee Session - Significant advances in male reproduction

3:00PM - 5:00PM
Hall E 2/3

Chairs: Moira O'Bryan & Lee Smith

3:00 PM  **David Handelsman** *(ANZAC Research Institute, Sydney, NSW, Australia)*  
Testosterone: The Biography of a Molecule  *abs# 70*

3:30 PM  **R John Aitken** *(Priority Research Centre in Reproductive Science, University of Newcastle, Callaghan, NSW, Australia)*  
Advances in our understanding of male infertility over the past 50 years – shores of need and reefs of greed  *abs# 71*

4:00 PM  **Rob McLachlan** *(Hudson Institute of Medical Research, Melbourne, VIC, Australia)*  
Significant advances in male reproduction  *abs# 72*

4:30 PM  **Elizabeth G Bromfield** *(The University of Newcastle, Callaghan, NSW, Australia)*  
J.L. Walters, S.L. Cafe, J. Aitken, E.A. McLaughlin, M.D. Dun, B.M. Gadella, B. Nixon  
Targeted disruption of lipoxygenase enzymes to prevent oxidative stress-mediated pathologies in the male germline  *abs# 73*

Joint SRB-ANZPRA Symposium - Golden Jubilee Symposium Session - Significant advances in our understanding of placental biology and pregnancy disorders

3:00PM - 5:00PM
Riverbank 3

Chairs: Roger Smith & Evdokia Dimitriadis

*This conference acknowledges the sponsorship of*

3:00 PM  **Claire Roberts** *(University of Adelaide, Adelaide, SA, Australia)*  
Highlights of placenta research past, present and future  *abs# 74*

3:30 PM  **Kirsty G Pringle** *(School of Biomedical Sciences and Pharmacy, University of Newcastle, Newcastle, NSW, Australia)*  
The Pathophysiology of Preeclampsia: 50 years of discovery but have we missed?  *abs# 75*

4:00 PM  **James SM Cuffe** *(The School of Biomedical Sciences, The University of Queensland, St Lucia, QLD, Australia)*  
Understanding placental regulation of gestational diabetes and programmed disease  *abs# 76*

4:30 PM  **Natalie Hannan** *(University of Melbourne, Parkville, VIC, Australia)*  
Therapeutic development for preeclampsia  *abs# 77*
Gene editing: advances in technology for Endocrine Research

3:00PM - 3:30PM
Riverbank 2

Chair: Timothy Cole

3:00 PM  **Paul Thomas** *(University of Adelaide, North Terrace, SA, Australia)*
KEEP CALM and CRISPR: joining the genome editing revolution  abs# 78

ESA Basic Science Orals - Endocrine regulation of development

3:30PM - 4:30PM
Riverbank 2

Chair: Caitlin Wyrwoll

3:30 PM  **Terence Y Pang** *(Florey Institute of Neuroscience and Mental Health, University of Melbourne, VIC, Australia)*
A.K. Short, K.A. Fennell, S. Yeshurun, A. Rawat, V. Batchelor, A. Hannan
Transgenerational impacts of paternal stress on offspring behavioural phenotypes and stress-response  abs# 79

3:45 PM  **Tamara Varcoe** *(Robinson Institute, University of Adelaide, Adelaide, South Australia, Australia)*
K. Gatford, H. Liu, D. Kennaway
Maternal glucose tolerance and pregnancy outcomes in sheep exposed to a simulated shift work protocol  abs# 80

4:00 PM  **Helen L Barrett** *(Mater Research, South Brisbane)*
L.F. Gomez Arango, S.A. Wilkinson, H. McIntyre, M. Morrison, L.K. Callaway, M. Dekker
A vegetarian diet is associated with different gut microbiota composition in early pregnancy  abs# 81

4:15 PM  **Ashley S Meakin** *(Mater Medical Research Institute - University of Queensland, Woolloongabba, QLD, Australia)*
Z. Saif, V.L. Clifton
Sex-specific placental androgen receptor isoform expression varies with maternal asthma and growth  abs# 82

ESA-SRB Joint Poster Session

5:00PM - 7:00PM
Hall G/F

This conference acknowledges the sponsorship of

Meeting of Minds

7:30PM - 10:30PM
Lady Burra Brewhouse
Pfizer Breakfast Symposium - 21 years after the first injection of Pegvisomant to humans

7:00AM - 8:00AM

Chair: David Torpy
Presenter: Aart Jan van der Lely

Breakfast served from 6:45am

This conference acknowledges the sponsorship of Pfizer Endocrine Care

Novo Nordisk Pharmaceuticals Breakfast Symposium - New Directions in Diabetes Management – Introducing Ryzodeg® 70/30

7:00AM - 8:00AM

Chair: Roger Chen
Presenters: Richard MacIsaac & Tim Davis

Breakfast served from 6:45am

This conference acknowledges the sponsorship of Novo Nordisk

ESA Taft Lecture

8:30AM - 9:30AM

Chair: Duncan Topliss

This conference acknowledges the sponsorship of ESA Eisai

8:30 AM  Susan Mandel (University of Pennsylvania Health System, Pennsylvania, United States)
Taft Lecture abs# 83

Robinson Research Institute Award

8:30AM - 9:10AM

Chair: Sarah Robertson

This conference acknowledges the sponsorship of

8:30 AM  Tu’uhevaha Kaitu’u-Lino (Department of Obstetrics and Gynaecology, Translational Obstetrics Group, Mercy Hospital for Women, University of Melbourne, Heidelberg, VIC, Australia)
Identifying new markers of placental insufficiency abs# 84
SRF-SRB Exchange Lecture

9:10AM - 9:30AM  
Chair: Mark Green

This conference acknowledges the sponsorship of

9:10 AM  
**Avi Lerner** *(Imperial College London, London, England, United Kingdom)*  
Characterization of the granulosa-lutein cell transcriptome in women with Polycystic Ovary Syndrome *abs# 85*

SSR-SRB Exchange Lecture

9:10AM - 9:40AM  
Chair: Jeremy Smith

This conference acknowledges the sponsorship of

9:10 AM  
**Humphrey Hung-Chang Yao** *(National Institute of Environmental Health Sciences, Research Triangle Park, NC, United States)*  
New Insights into Mammalian Sexual Differentiation: From Frank Lillie’s Freemartin to the Jost Paradigm *abs# 86*

ESA-SRB Morning Tea

9:30AM - 10:00AM  
Hall G/F

Special Guideline Session: PCOS

10:00AM - 11:30AM  
Hall C

Chairs: Anju Joham & Andrea Cussons

10:00 AM  
**Robert Norman** *(NHMRC Centre for Research Excellence in PCOS, Monash University and University of Adelaide, Australia)*  
The rationale for a guideline and PCOS Diagnosis and Screening

10:30 AM  
**Jacqueline Boyle** *(Monash Centre for Health Research and Implementation, Monash University, Clayton, VIC, Australia)*  
Emotional Well-being, lifestyle, Models of care and Treatment of Infertility

11:00 AM  
**Helena J Teede** *(Monash Centre for Health Research and Implementation, Monash University, Clayton, VIC, Australia)*  
Medical Treatment and International Guideline Translation

**Helena J Teede, Robert Norman and Jacqueline Boyle**  
International Evidence Based Guideline for the Assessment and Management of PCOS *(joint abstract) abs# 87*
SRB - Newcastle Award for Emerging Research Leaders

10:00AM - 11:30AM
Hall E 2/3

Chairs: Mark Baker & Eileen McLaughlin

This conference acknowledges the sponsorship of [Society for Reproductive Biology]

10:00 AM Ellen Menkhorst (Hudson Institute of Medical Research, Clayton, VIC, Australia)
Maternal-fetal dialogue during early pregnancy abs# 88

10:30 AM Alison Care (Robinson Research Institute and Adelaide Medical School, University of Adelaide, Adelaide, South Australia, Australia)
How the maternal immune cells drive vascular adaptations to pregnancy abs# 89

11:00 AM Michael J Bertoldo (Fertility and Research Centre, School of Women's and Children's Health, University of New South Wales, Sydney, NSW, Australia)
Towards the development of novel oncofertility strategies for female cancer patients abs# 90

ESA Basic Science Orals – Metabolism on health and Disease

10:00AM - 11:00AM
Hall E1

Chair: Belinda Henry

10:00 AM Luba Sominsky (School of Health and Biomedical Sciences, RMIT University, Melbourne, VIC, Australia)
I. Ziko, A. Soch, S. Younesi, S. Xavier, S.J. Spencer
Activation and suppression of microglia during early development similarly disrupt neuroendocrine function in the female rat. abs# 91

10:15 AM Spencer T Greatorex (Monash University, Clayton, VIC, Australia)
J. Rosenbluh, B. Campbell, T.J. Cole
Metabolic Regulation of Stress Response Pathways and Chemoresistance in Colon Cancer is Mediated via B-Raf Dependent Inhibition of PPARγ abs# 92

10:30 AM Zhengxiang Huang (School of Biomedical Sciences, The University of Queensland, Brisbane, Australia)
L. Huang, C. Wang, S. Zhu, M. Cowley, C. Chen
SGLT2 inhibitor prevents hyperinsulinemia and restores pulsatile growth hormone secretion in obese pre-diabetic mice abs# 93

10:45 AM Kelly L Walton (Monash University, Clayton, VIC, Australia)
Systemic administration of propeptides attenuates activin A-induced cachetic wasting abs# 94
10:00 AM  
Roger Chen (University Children’s Hospital, Ljubljana, Slovenia)  
T. Battelino, L. Deeb, P. Reiter, T. Greve, G. Klingensmith, M. Kocova, M. Kovarenko, N. Shehadeh  
Efficacy and safety of a fixed combination of insulin degludec/insulin aspart in children and adolescents with type 1 diabetes abs# 95

10:15 AM  
Eleanor P Thong (Dept of Endocrinology and Diabetes, Monash Health, Clayton, VIC, Australia)  
A.E. Joham, F. Milat, S. Ranasinha, G. Mishra, H.J. Teede  
Contemporary risk of menstrual and reproductive dysfunction in women with Type 1 diabetes: a population-based study abs# 96

10:30 AM  
James Sires (Discipline of Medicine, University of Adelaide, Adelaide, SA, Australia)  
Examination of stress hyperglycaemia and stroke outcomes using the stress hyperglycaemia ratio abs# 97

10:45 AM  
Udai Wijetunga (Diabetes Research Unit, Faculty of Medicine, University of Colombo, Colombo)  
H. Dissanayake, P. Katulanda  
Comparison of triceps and suprailiac skin fold thickness versus body mass index and waist circumference in predicting body fat percentage and metabolic syndrome in young adults with diabetes abs# 98

11:00 AM  
Bu B Yeap (The Medical School, University of Western Australia, Perth, WA, Australia)  
Plasma estradiol concentration is independently associated with longer leucocyte telomere length in older men abs# 99

11:15 AM  
Vivian Ly (Department of Medicine (Austin Health), The University of Melbourne, Heidelberg, VIC, Australia)  
Selective loss of levator ani and leg muscle volumes in men undergoing androgen deprivation therapy abs# 100

11:30 AM  
John Wong (Royal Melbourne Hospital, Parkville, Victoria, Australia)  
O. Ooi, S. Leemaqz, P. Cundill, N. Silberstein, I. Bretherton, T. MacFarlane, P. Locke, M. Grossmann, J.D. Zajac, A.S. Cheung  
Gender-affirming hormonal therapies and surgical interventions among non-binary transgender individuals abs# 101

11:45 AM  
Siew Lim (Monash Centre for Health Research and Implementation, Monash University, Clayton)  
S. Hutchison, R. Norman, H. Teede, E. Van Ryswck, L. Moran  
Lifestyle changes in women with polycystic ovary syndrome abs# 102
SRB Orals - Pregnancy and Parturition

11:30 AM - 12:30PM  
Hall E 2/3

Chairs: Claire Roberts & James Cuffe

11:30 AM  **Jessica A Griege** (Adelaide Health and Medical Sciences and Robinson Research Institute, University of Adelaide, Adelaide, SA, Australia)
The association between Metabolic Syndrome and time to pregnancy in a cohort of nulliparous women.  **abs# 103**

11:45 AM  **Lisa K Akison** (Child Health Research Centre, Centre for Children’s Health Research, The University of Queensland, South Brisbane, QLD, Australia)
A.M. Fielding, D.J. Browne, E. Tejo, S.E. Steane, M.A. Sullivan, K.M. Moritz
Placental and fetal changes due to periconceptional alcohol exposure and the potential for mid-gestational choline supplementation to ameliorate these effects  **abs# 104**

12:00 PM  **Caroline E Gargett** (Department of Obstetrics and Gynaecology, Monash University, Clayton, VIC, Australia)
K. Tan, R. Ong, G. Weston
Relationship between endometrial stem/progenitor cells in the endometrial scratch biopsy and live birth outcomes following IVF – a pilot study  **abs# 105**

12:15 PM  **Larry W Chamley** (Department of Obstetrics and Gynaecology, University of Auckland, Auckland, New Zealand)
Q. Chen, Y. Wooff, S. O’Carroll
Faking its own death, why the syncytiotrophoblast appears to die in placental explant cultures.  **abs# 106**

SRB Orals - Ozooa Student Award

11:30AM - 12:30PM  
Hall E1

Chairs: Robert Gilchrist & Alexandra Harvey

11:30 AM  **Jacintha H Martin** (Priority Research Centre in Reproductive Science (PRC), University of Newcastle, Callaghan, Newcastle, NSW, Australia)
E.G. Bromfield, T. Lord, J. Aitken, B. Nixon
DNA repair and protection in the female germline  **abs# 107**

11:45 AM  **Quynh-Nhu Nguyen** (Department of Obstetrics and Gynaecology, The University of Melbourne, Parkville, Victoria, Australia)
S.H. Liew, N. Zerafa, A. Strasser, J. Findlay, M. Hickey, K. Hutt
Chemotherapy-induced infertility is caused by direct damage to oocytes  **abs# 108**

12:00 PM  **Hon Y Chan** (Robinson Research Institute & Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia)
J.E. Schjenken, P.Y. Chin, R.A. Matias, N.O. McPherson, S.A. Robertson
Paternal miR-146a regulation of male reproductive parameters and its influence on the female immune response at conception in the mouse  **abs# 109**

12:15 PM  **Macarena Gonzalez** (Robinson Research Institute, School of Medicine, University of Adelaide, Adelaide, SA, Australia)
R. Robker
Reversing decreased gamete quality and altered embryogenesis caused by advanced paternal age abs# 110

ESA-SRB Joint Keynote Lecture
12:00PM - 12:30PM
Hall C

Chair: Marilyn Renfree

This conference acknowledges the sponsorship of

12:00 PM Jennifer A Marshall Graves (School of Life sciences, La Trobe University, Melbourne, Victoria, Australia)
Animal sex determination by genes, chromosomes and the environment abs# 111

ESA-SRB Lunch
1:00PM - 1:30PM
Hall G/F

SRB Symposium - Golden Jubilee Session - Significant advances in female reproduction
1:30PM - 3:30PM
Hall E 2/3

Chairs: Darryl Russell & Rebecca Robker

1:30 PM Iain Clarke (Neuroscience Program, Monash Biomedicine Discovery Institute and Department of Physiology, Monash University, Melbourne, VIC, Australia)
Heady Tales of Ewe abs# 112

2:00 PM Ray Rodgers (Robinson Institute, University of Adelaide, Adelaide, SA, Australia)
Fifty years of research. What a journey for the study of the ovary. abs# 113

2:30 PM Graeme B Martin (University of Western Australia, Crawley, WA, Australia)
The 3 Ps of Reproduction: Pheromones, Photons and Phood abs# 114

3:00 PM Karla Hutt (Development and Stem Cells Program, Monash Biomedicine Discovery Institute and Department of Anatomy and Developmental Biology, Monash University, Melbourne, VIC, Australia)
Oncofertility: a catalyst for significant advances in female reproduction abs# 115
ESA Basic Symposium: Endocrine Cancers

1:30PM - 3:30PM

Chairs: Renea Taylor & Dinny Graham

1:30 PM  **Jennifer Richer** *(University of Colorado, Aurora, CO, United States)*
Endocrine Therapy for Triple Negative Breast Cancer: Targeting the Androgen Receptor - When and How?  abs# 116

2:00 PM  **Wayne Tilley** *(Dame Roma Mitchell Cancer Research Laboratories, Dept. of Medicine, University of Adelaide, Adelaide, Australia)*
Targeting the androgen receptor in estrogen receptor-α (ER) positive breast cancer  abs# 117

2:30 PM  **Mitchell Lawrence** *(Monash University, Clayton, VIC, Australia)*
New patient-derived models for rapid preclinical testing of castration-resistant prostate cancer  abs# 118

3:00 PM  **Luke Selth** *(University of Adelaide, Adelaide, SA, Australia)*
Towards improved treatment of prostate cancer: novel strategies to target the androgen receptor  abs# 119

ESA Bryan Hudson Clinical Awards

1:30PM - 3:00PM

Chairs: Michael Mond & Bu Yeap

This conference acknowledges the sponsorship of *esa*

1:30 PM  **Aakansha Zala** *(University of Queensland, Brisbane, QLD, Australia)*
H. Nel, N. Ramnoruth, R. Thomas, T. Russell
Identification of immunogenic thyroid-specific self-peptides in Graves' disease  abs# 120

1:45 PM  **Ie-Wen Sim** *(Melbourne Medical School, University of Melbourne, Victoria, Australia)*
G.L. Borromeo, J.F. Seymour, P.R. Ebeling
Teriparatide improves healing of medication-related osteonecrosis of the jaw: a placebo-controlled, randomized trial  abs# 121

2:00 PM  **Soulmaz Shorakae** *(Monash Centre for Health Research and Implementation, Monash University, Clayton, VIC, Australia)*
Brown adipose tissue thermogenesis in polycystic ovary syndrome  abs# 122

2:15 PM  **Michael Thompson** *(Department of Diabetes and Endocrinology, Royal Hobart Hospital)*
J. Burgess
The impact of Multiple Endocrine Neoplasia Type 1 on fertility in a multigenerational cohort  abs# 123
2:30 PM  **Jun Yang** *(Hudson Institute of Medical Research, Clayton, VIC, Australia)*

J. Shen, N.Y. Chee, J.C. Doery, K. Choy, W. Chong, P.J. Fuller
Optimizing care for patients with primary aldosteronism: putting research into practice  *abs# 124*

**ESA-SRB Afternoon Tea**

3:30PM - 4:00PM  Hall G/F

**ESA Mid-Career Award Lecture**

4:00PM - 4:30PM  Hall C

Chair: Timothy Cole

*This conference acknowledges the sponsorship of*

4:00 PM  **Kirsty Walters** *(School of Women’s & Children’s Health, University of New South Wales, Sydney, NSW, Australia)*
Androgen actions in ovarian health and pathogenesis  *abs# 125*

**SRB David Healy New Investigator Award**

4:00PM - 5:30PM  Hall E 2/3

Chairs: Ray Rodgers & Caroline Gargett

*This conference acknowledges the sponsorship of*

4:00 PM  **Bihong Zhang** *(Robinson Research Institute, Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia)*
J.E. Schjenken, L.M. Moldenhauer, S.C. Barry, S.A. Robertson
Altered Treg cell and antigen presenting cell populations are associated with LPS induced fetal loss in pregnant miR-223 deficient mice  *abs# 126*

4:15 PM  **Meaghan Griffiths** *(Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia)*
M. Van Sinderen, K. Rainczuk, M. Takamura, E. Dimitriadis
miR29c overexpression in the infertile endometrium impairs endometrial epithelial adhesive capacity by downregulating COL4A1  *abs# 127*

4:30 PM  **Sarah J Delforce** *(School of Biomedical Sciences and Pharmacy, University of Newcastle and Hunter Medical Research Institute, Newcastle, NSW, Australia)*
A.L. Arthurs, R. Lim, M.A. Tadros, H. Drury, R.K. Quinn, E.R. Lumbers, K.G. Pringle
Low oxygen driven miRNA regulation of AT1R mediated placental angiogenesis  *abs# 128*

4:45 PM  **Jessica Walters** *(School of Environmental and Life Sciences, Discipline of Biological Sciences, Priority Research Centre for Reproductive Science, University of Newcastle, Callaghan, New South Wales, Australia)*
G.N. De Iuliis, M.D. Dun, J. Aitken, E.A. McLaughlin, B. Nixon, E.G. Bromfield
Characterisation of the lipoxygenase – lipid peroxidation pathway in human spermatozoa  *abs# 129*

5:00 PM  **Valentina Rodriguez Paris** *(School of Women’s & Children’s Health, University of New South Wales, Sydney, NSW 2052, Australia)*
Experimental polycystic ovary syndrome (PCOS) traits can be ameliorated by dietary intervention abs# 130

5:15 PM Ali Aflatounian (School of Women’s & Children’s Health, University of New South Wales, Sydney, NSW, Australia)
M.C. Edwards, V. Rodriguez Paris, M.J. Bertoldo, R.B. Gilchrist, W.L. Ledger, D.J. Handelsman, K.A. Walters
Unravelling the underlying role of androgen- vs estrogen-mediated actions in development of the differing PCOS phenotypes abs# 131

SRB-ANZPRA Award Finalists

4:00PM - 5:30PM Hall E1

Chairs: Tu’uhevaha Kaitu'u-Lino & Kirsty Pringle

This conference acknowledges the sponsorship of

4:00 PM Saije K Morosin (School of Biomedical Sciences and Pharmacy, University of Newcastle, Newcastle, New South Wales, Australia)
S.J. Delforce, E.R. Lumbers, K.G. Pringle
Syncytialisation and the prorenin receptor ((P)RR) abs# 132

4:15 PM Rebecca L Wilson (Center for Fetal and Placental Research, Cincinnati Children’s Hospital Medical Centre, Cincinnati, Ohio, United States)
J.A. Courtney, K. Owens, M. Chuecos, M. Carrillo, N. Schlabritz-Lutsevich, H.N. Jones
Polymer-based, biodegradable nanoparticles for the treatment of placental dysfunction abs# 133

4:30 PM Natasha de Alwis (University of Melbourne, Carlton, VIC, Australia)
Rcbtb2 is reduced in preeclamptic placentas and in placental tissue exposed to hypoxia abs# 134

4:45 PM Samantha L Rodrigues (Hunter Medical Research Institute, New Lambton Heights, NSW, Australia)
N. Verrills, J. Al-mazi, E.R. Lumbers, K.G. Pringle
(P)RR remodels the trophoblast cytoskeleton and promotes trophoblast proliferation and migration abs# 135

5:00 PM Yao Wang (Hudson Institute of Medical Research, VIC)
M. La, T. Pham, G. Nie
High levels of circulating HtrA4 may contribute to the development of preeclampsia by cleaving the main cell surface receptor of VEGFA to induce systemic endothelial dysfunction abs# 136

5:15 PM Joshua J Fisher (Griffith University, Labrador, QLD, Australia)
D.R. McKeating, J.O. Cuffe, O.J. Holland, A.V. Perkins
Mitochondrial dysfunction and increased progesterone synthesis in syncytiotrophoblast mitochondria from gestational diabetes mellitus. abs# 137

ESA AGM

4:30PM - 5:30PM Hall C
SRB Student Meeting - Professional Development Lecture

5:30PM - 6:30PM  
Hall E 2/3

ESA-SRB Conference Dinner

7:00PM - 11:30PM  
Panorama Ballroom

Providing a vital resource on adrenal insufficiency

Australian Addison’s Disease Association Inc.

- Non-profit support group for people living with adrenal insufficiency and their carers
- 300+ members Australia wide
- Up-to-date information and ongoing support to those living with either Addison’s disease or secondary adrenal insufficiency
- Advocates on behalf of members with medical professionals to help improve the diagnosis and treatment of adrenal insufficiency

Visit www.addisons.org.au/ESA1 for more information and to see the results of our 2017 Member Survey. This survey of 231 respondents provides invaluable insights into what it is like to live with and manage this rare health condition.
ESA Clinical Symposium: Endocrine Management of Breast Cancers

8:30AM - 10:30AM  Riverbank 2

Chairs: Theresa Hickey & Sabashini Ramchand

8:30 AM  **Jennifer Richer** *(University of Colorado, Aurora, CO, United States)*
Androgen Receptor in Breast Cancer: potential utility as a prognostic indicator or therapeutic target in breast cancer *abs# 138*

9:00 AM  **Mathis Grossmann** *(University of Melbourne Austin Health, Heidelberg, VIC, Australia)*
Bone Health During Endocrine Therapy for Breast Cancer *abs# 139*

9:30 AM  **Elgene Lim** *(Garvan Institute of Medical Research and The Kinghorn Cancer Centre, Darlinghurst, NSW, Australia)*
A renaissance in therapies for hormone receptor positive breast cancers *abs# 140*

10:00 AM  **Kate Stern** *(Melbourne IVF, East Melbourne, VIC, Australia)*
Fertility considerations for breast cancer patients *abs# 141*

ESA-ADS Joint Welcome

8:30AM - 8:40AM  Hall C&D

ESA-ADS Plenary

8:40AM - 9:20AM  Hall C&D

Chair: Sophia Zoungas

*This conference acknowledges the sponsorship of*

8:40 AM  **Rohit Kulkarni** *(Joslin Diabetes Center, Boston, MA, United States)*
The interplay between insulin resistance and β-cell dysfunction *abs# 142*

SRB Orals - Factors Influencing Uterine Function

8:30AM - 9:30AM  Hall E 2/3

Chairs: Ellen Menkhorst & James Deane

8:30 AM  **Jemma Evans** *(The Hudson Institute of Medical Research, Clayton, VIC, Australia)*
*D. Greening, M. Bilandzic, S. Kinnear, S. Fisher, L. Salamonsen*
Defining a human embryo implantation ‘adhesive’ *abs# 143*

8:45 AM  **Kelly L Walton** *(Monash University, Clayton, VIC, Australia)*
A genetic mutation in the inhibin βB-subunit disrupts uterine function in mice *abs# 144*
9:00 AM  **Oliver Griffith** *(Ecology and Evolutionary Biology, Yale University, New Haven, Connecticut, United States)*  
A. Chavan, G. Wagner  
The implantation reaction evolved as a mode of endometrial recognition of pregnancy in the first live bearing mammals  *abs# 145*

9:15 AM  **Anna P Ponnampalam** *(The Liggins Institute, The University of Auckland, Auckland, New Zealand)*  
S. Senthil Kumar, V. Mahajan, H. Zhang, R. Taylor, P.N. Baker, L. McCowan  
Reduced SIRT1 levels are evident in 15 weeks maternal serum and in term placentas of pregnancies complicated by gestational diabetes mellitus  *abs# 146*

**SRB Orals - Factors Regulating Reproductive Potential**

8:30AM - 9:30AM  
**Hall E1**

**Chairs:** Jeremy Thompson & Margot Day

8:30 AM  **Amy L Winship** *(Department of Anatomy & Developmental Biology, Monash University, Clayton, VIC, Australia)*  
S.E. Gazzard, L.A. Cullen-McEwen, J.F. Bertram, K.J. Hutt  
Maternal low protein diet programmes low ovarian reserve in offspring  *abs# 147*

8:45 AM  **Tina Bianco-Miotto** *(Robinson Research Institute, University of Adelaide, Adelaide, SA, Australia)*  
R. Wilson, M. Francois, T. Jankovic-Karasolos, D. McAninch, D. McCullough, C. Roberts  
Characterisation of 5-methylcytosine and 5-hydroxymethylcytosine in human placenta cell types across gestation  *abs# 148*

9:00 AM  **Jane C Fenelon** *(CRRF, University of Montreal, Montreal, Quebec, Canada)*  
B.D. Murphy  
*In vitro* reactivation of the mink blastocyst from embryonic diapause  *abs# 149*

9:15 AM  **Stephen D Johnston** *(The University of Queensland, Gatton)*  
K. Beagley, J. Seddon, T. Keeley, L. Hulse, B. Schultz, A. Mucci  
A living koala genome bank  *abs# 150*

**SRB President’s Lecture**

9:30AM - 10:30AM  
**Hall E 2/3**

**Chair:** Chris O’Neill

*This conference acknowledges the sponsorship of*  

9:30 AM  **Francesco Demayo** *(Intramural Research Program, Research Triangle Park, NC, United States)*  
The Role of the Progesterone Receptor in the Regulation of Endometrial Receptivity  *abs# 151*
ESA Translational Science Orals - Basic Science meets Clinical Research

9:30AM - 10:30AM

Hall E1

Chairs: Simon Chu & Jun Yang

9:30 AM  **Zarqa Saif** (Mater Medical Research Institute, Woolloongabba, Brisbane, Queensland, Australia)

V.L. Clifton

Glucocorticoid receptor isoform regulation: Unfolding the mechanisms behind glucocorticoid induced anti-inflammatory actions abs# 152

9:42 AM  **Kharis Burns** (The Keogh Institute for Medical Research, Nedlands, WA, Australia)


Genome Wide Association Study Identifies 5 Novel Loci Associated with Polycystic Ovary Syndrome (PCOS) in Caucasian Women abs# 153

9:54 AM  **Huaikai Shi** (Burns Research, Anzac Research Institute, Sydney, NSW, Australia)


Dihydrotestosterone (DHT) enhances wound healing from severe burn injury through regulating inflammatory response abs# 154

10:06 AM  **Christopher W Rowe** (School of Medicine and Public Health, University of Newcastle, Newcastle, NSW, Australia)


Increased nerve density around papillary thyroid cancers and primary thyroid cancers with nodal metastases abs# 155

10:18 AM  **Sophie Lim** (Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, VIC, Australia)

P. Sluka, C. Gilfillan

Detection frequency of BRAF mutation in benign thyroid nodules abs# 156

ESA-SRB Morning Tea

10:30AM - 11:00AM

Hall G/F

ESA-ADS Joint Symposium - Regulation of Beta Cell Function

11:00AM - 1:00PM

Hall C&D

Chairs: John Wentworth & Helen Thomas

*This conference acknowledges the sponsorship of*

Christopher Nolan (Department of Endocrinology and Diabetes, The Canberra Hospital, Woden, ACT, Australia)

The islet β-cell and type 2 diabetes – victim or perpetrator of the crime? abs# 157
11:30 AM  **Rohit Kulkarni** *(Joslin Diabetes Center, Boston, MA, United States)*  
Human pancreatic ducts as a source of beta cells.  
*abs# 158*

12:00 PM  **Peter Thorn** *(University of Sydney, Sydney, NSW, Australia)*  
W. Gan, O. Do, L. Cottle, E. Kosobrodova, M. Bilek  
Local integrin activation in pancreatic beta cells targets insulin secretion to the vasculature  
*abs# 159*

12:30 PM  **Jenny Gunton** *(University of Sydney, NSW)*  
Human beta-cell function and islet transplantation: can we improve?  
*abs# 160*

**ESA Basic Symposium: Gut Endocrinology**

11:00AM - 1:00PM  
Hall E1  
Chair: Zane Andrews

11:00 AM  **Damien Keating** *(College of Medicine and Public Health, Flinders University, Adelaide, South Australia)*  
Mechanisms controlling hormone secretion in human gut and its relevance to metabolism  
*abs# 161*

11:30 AM  **Christine Feinle-Bisset** *(University of Adelaide Discipline of Medicine and NHMRC Centre of Research Excellence in Translating Nutritional Science to Good Health, Adelaide, SA, Australia)*  
Contributions of gut functions to the regulation of food intake in humans  
*abs# 162*

12:00 PM  **Richard Young** *(Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia)*  
Mechanisms linking artificial sweeteners to impaired glycaemic control in healthy subjects  
*abs# 163*

12:30 PM  **Michael Horowitz** *(University of Adelaide, Discipline of Medicine, Adelaide, SA, Australia)*  
Glucagon-like peptide-1 (GLP-1) - incretin or enterogastrone?  
*abs# 164*

**SRB Symposium - Golden Jubilee Session - Significant advances in our understanding of the periconceptional environment**

11:00AM - 1:00PM  
Hall E 2/3  
Chairs: Larry Chamley & Kathy Gatford

11:00 AM  **Mary Wlodek** *(Department of Physiology, School of Biomedical Sciences, The University of Melbourne, Melbourne, VIC, Australia)*  
Critical windows and experimental models programming developmental disease risk  
*abs# 165*

11:30 AM  **Michelle Lane** *(University of Adelaide, Adelaide, SA, Australia)*  
To what extent is health predetermined? – How environmental exposures of gametes influence the developmental trajectory of embryos?  
*abs# 166*

12:00 PM  **Patrick Western** *(Hudson Institute for Medical Research, Clayton, VIC, Australia)*  
Epigenetic Regulation in the Germline: Setting a Foundation for the Next Generation.  
*abs# 167*

12:30 PM  **Karen Mortiz** *(University of Queensland, South Brisbane, QLD, Australia)*  
Prenatal alcohol exposure: intervening to prevent disease  
*abs# 168*
ESA Clinical Orals - Pituitary and Adrenal

11:00 AM - 12:30 PM

Chairs: Christopher Yates & Emily Mackenzie

11:00 AM  **James P Robinson** *(Department of Diabetes and Endocrinology, Royal Hobart Hospital, Hobart, Tasmania)*
V. Parameswaran, J. Burgess
Predictors of long-term outcome following parathyroidectomy in MEN 1  *abs# 169*

11:15 AM  **Jinbo Hu** *(Endocrinology, The First Affiliated Hospital of Chongqing Medical University, Chongqing, China)*
Y. Song, Q. Li
Combination of Captopril Challenge Test and Saline Infusion Test Does Not Improve the Diagnostic Accuracy of Primary Aldosteronism  *abs# 170*

11:30 AM  **Amanda Seabrook** *(Familial Cancer Service, Royal North Shore Hospital, Sydney, NSW, Australia)*
K. Tucker, D. Benn, J. Kirk, A. Spigelman, R. Clifton-Bligh
Prevalence of hereditary pheochromocytoma and paraganglioma and associated genotypes within a paediatric and adolescent population: a review of patients presenting to familial cancer services within NSW between 1994-2017.  *abs# 171*

11:45 AM  **Sunita De Sousa** *(Endocrine and Metabolic Unit, Royal Adelaide Hospital, Adelaide, SA, Australia)*
M. Saleem, W. Rankin, D.J. Torpy
Clinically significant inter-assay discordance in serum prolactin in Australia  *abs# 172*

12:00 PM  **Pieter Jansen** *(Hypertension Unit, Princess Alexandra Hospital, Woolloongabba, QLD, Australia)*
M. Stowasser
Aldosterone-producing adenoma associated with non-suppressed renin: a case series  *abs# 173*

12:15 PM  **Jasper Sung** *(Westmead Hospital, Westmead, NSW, Australia)*
J. Lai, B. Lee, J. Ryan, T. Yoneda, S. Lim-Tio
Use of a semiquantitative point-of-care cortisol assay in adrenal vein sampling: experience from a local centre  *abs# 174*

ESA-SRB Lunch

1:00PM - 2:00PM

Hall G/F
ESA-SRB Early Career Development Workshop

1:00PM - 2:00PM  
Hall E 2/3

Chairs: Timothy Cole and Michael Bertoldo

Lunch Served outside this room for attendees of this session

1:00 PM  
**Zane Andrews**  
Changes to the NHMRC research funding system- how will this impact early- and mid-career researchers

**Academic Life: Panel discussion**

1:20 PM  
**Brett Nixon** (*University of Newcastle*)

1:25 PM  
**Belinda Henry** (*Monash University*)

1:30 PM  
**Mark Green** (*University of Melbourne*)

1:35 PM  
**Kathy Gatford** (*University of Adelaide*)

1:40 PM  
Open Discussion and Networking

SRB Symposium - Reproductive Health Australia Symposium

2:00PM - 3:30PM  
Hall E1

Chair: Jenny Graves FAA

2:00 PM  
**Sarah Robertson** (*University of Adelaide, Adelaide, SA, Australia*)  
Making Babies abs# 175

2:30 PM  
**Jeremy G Thompson** (*The Robinson Research Institute, School of Medicine, The University of Adelaide, Adelaide, SA, Australia*)  
Making Meat! Challenges and solutions. abs# 396

3:00 PM  
**Andrew Pask** (*University of Melbourne, Parkville, VIC, Australia*)  
Saving the Environment abs# 397