

SUNDAY 19TH AUGUST 2018

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### 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*



Society for  
**Reproductive  
Biology**

## Ipsen Breakfast Symposium - Pituitary Tumour Genetics - where are we in 2018

7:00AM - 8:00AM

Hall E1

Chairs: Rory Clifton-Bligh & Christopher Yates

Presenter: **Ann McCormack**

*Breakfast served from 6:45am*

*This conference acknowledges the sponsorship of*



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

7:00AM - 8:00AM

Riverbank 3

Chair: Bruce Robinson

Presenters: **Liza Nery, Bruce Robinson & Duncan Topliss**

*Breakfast served from 6:45am*

*This conference acknowledges the sponsorship of*



## Joint Welcome

8:30AM - 8:45AM

Hall C

Warrick Inder (ESA President)

Chris O'Neill (SRB President)

## ESA Harrison Plenary

8:45AM - 9:45AM

Hall C

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*

*This conference acknowledges the sponsorship of*



## ESA Servier Award Lecture

9:45AM - 10:00AM

Hall C

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

Hall E 2/3

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

Hall G/F

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

10:30AM - 12:00PM

Hall C

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, Woollongabba, Queensland, Australia*)  
*P.B. Thomas, P.L. Jeffery, C.C. Nelson, M.D. Gahete, R.M. Luque, I. Seim, L.K. Chopin*  
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, Woollongabba, QLD, Australia*)  
*G. Tevz, A. Rockstroh, A. Fard, M. Lehman, C. Nelson, T. Cancer BioResource, J. Clements, J. Batra*  
*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

Hall E1

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*<sup>-/-</sup> mice. abs# 26
- 10:45 AM **Dulama Richani** (*School of Women's and Children's Health, UNSW Sydney, Kensington, NSW, Australia*)  
*K. Constance, S. Lien, D. Agapiou, W. Stocker, M. Hedger, W. Ledger, J. Thompson, D. Robertson, D. Mottershead, C. Harrison, K. Walton, R. Gilchrist*  
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*)  
*L.K. Akison, T.T. Dinh, L.N. Watson, R.L. Robker, D.L. Russell*  
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*)  
*K. Chan, P. Sweeten, G. Walker, W. Stocker, K. Walton, C. Harrison, W.L. Ledger, D. Robertson, R.B. Gilchrist*  
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

Riverbank 2

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*)  
*D. Rebourcet, L.F. Dagley, A.I. Webb, G. Infusini, P.J. O'Shaughnessy, L. Milne, W.*

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*



Reproduction, Fertility and Development

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*)  
*I. Bretherton, C. Spanos, A Ghazem-Zadeh, X.F Wang, E Seeman, M. Grossmann, J.D. Zajac, A.S. Cheung*  
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)<sub>2</sub>D *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*)  
*G. Laven-Law, M. Shehata, K.A. Walters, I.M. Denis, M. Rahman, D.J. Handelsman, N.R. Dean, W.D. Tilley, T.E. Hickey*  
Androgen receptor signalling promotes luminal differentiation in mammary epithelial cells *abs# 45*
- 1:15 PM **Roxanne Toivanen** (*Peter MacCallum Cancer Centre, Melbourne, VIC, Australia*)  
*M. Zou, M. Lawrence, L. Porter, A. Clark, H. Wang, M. Shen, C. Abate-Shen, R. Taylor, G. Risbridger*  
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*

- 1:45 PM **J Dinny Graham** (*Centre for Cancer Research, Westmead Institute for Medical Research, The University of Sydney, Westmead, NSW, Australia*)  
*T.B. Doan, A. Scerri, B. Guild, C.L. Clarke*  
 Novel nuclear receptor targeted treatments for triple negative breast cancer *abs# 48*
- 2:00 PM **Michelle Maugham** (*Queensland University of Technology, QLD*)  
*P. Thomas, G. Crisp, E. Shah, A. Herington, C. Chen, L. Gregory, C. Nelson, I. Seim, P. Jeffery, L. Chopin*  
 The *Rag1<sup>-/-</sup>* mouse: establishing links between obesity and prostate cancer *abs# 49*
- 2:15 PM **Sophie N Lee** (*Monash University, Clayton, VIC, Australia*)  
*J. Kraska, M. Papagiris, R. Middendorff, S.J. Ellem, M. Whittaker, G.P. Risbridger, B. Exintaris*  
 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

*This conference acknowledges the sponsorship of*



*Lunch Served outside this room for attendees of this session*

- 1:10 PM **Urooza Sarma** (*Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University, Melbourne, Victoria, Australia*)  
*A. Carey, K. Beagley, K. Hutt*  
*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*)  
*A.L. Katen, B. Nixon, S.D. Roman*  
 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*)  
*N. Nigro, S. Keshvari, J.L. Barclay, J. Sorbello, J. Upham, H. Benham, S. Anderson, N. Steiger, J.B. Prins*  
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*)  
*A. Bird, M. Ono, S. Eggers, S. Bagheri-Fam, L. Zhao, J. Ryan, P. Western, A. Kueh, E. Thompson, T. Thomas, P. Stanton, M. Harada, P. Koopman, A. Sinclair, V. Harley*  
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 5 $\alpha$ -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*)  
*M. Mclean, A. Hayden, A. Poljak, B. Cheema, H. Gurney, N. Bahl, N. Reddy, H. Shahidipour, V. Birzniece*  
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 Nitert*  
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

MR L3

Chair: David Torpy  
Presenter: **Aart Jan van der Lely**

*Breakfast served from 6:45am*

*This conference acknowledges the sponsorship of*  **Endocrine Care**


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

7:00AM - 8:00AM

Hall E1

Chair: Roger Chen  
Presenters: **Richard Maclsaac & Tim Davis**

*Breakfast served from 6:45am*

*This conference acknowledges the sponsorship of*   
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**ESA Taft Lecture**

8:30AM - 9:30AM

Hall C

Chair: Duncan Topliss

*This conference acknowledges the sponsorship of*  **Endocrine Society of Australia** 



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

Hall E 2/3

Chair: Sarah Robertson

*This conference acknowledges the sponsorship of*  **Society for Reproductive Biology**  **Robinson Research Institute**  
Healthy children for life.

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

Hall E1

Chair: Mark Green

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Biology



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Reproduction  
and Fertility

9:10 AM **Avi Lerner** (*Imperial College London, London, England, United Kingdom*)  
*M. Coates, T. Caraderi, A. Markou, L. Owens, C. Simpson, J. Velupillai, G. Pool, E. Makrinou, G. Christopoulos, S. Lavery, C. Bevan, K. Hardy, C. Lindgren, S. Franks*  
Characterization of the granulosa-lutein cell transcriptome in women with Polycystic Ovary Syndrome *abs# 85*

## SSR-SRB Exchange Lecture

9:10AM - 9:40AM

Hall E 2/3

Chair: Jeremy Smith

*This conference acknowledges the sponsorship of*



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of Reproduction

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

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Biology



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- 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 PPAR $\gamma$  *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*)  
*J.L. Chen, Q. Lee, E. Kelly, M. La, L. Lu, G. Lovrecz, A. Hagg, T. Colgan, H. Qian, P. Gregorevic, C.A. Harrison*  
Systemic administration of propeptides attenuates activin A-induced cachectic wasting *abs# 94*

## ESA Clinical Orals - Diabetes and Sex-steroids

10:00AM - 12:00PM

MR L3

Chairs: Leon Bach & Sunita De Sousa

- 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*)  
*E.J. Meyer, A. Chen, A. Lee, C. Sullivan, T. Thynne, G. Roberts*  
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*)  
*J. Hui, M.W. Knuiman, D.J. Handelsman, L. Flicker, M.L. Divitini, G.M. Arscott, S.V. McLennan, S.M. Twigg, O.P. Almeida, G.J. Hankey, J. Golledge, P.E. Norman, J.P. Beilby*  
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*)  
*A.S. Cheung, C. Cunningham, D. Ko, H. Gray, R. Hoermann, B.J. Strauss, E. Bani Hassan, G. Duque, M. Pandey, J.D. Zajac, M. Grossmann*  
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

11:30AM - 12:30PM

Hall E 2/3

Chairs: Claire Roberts & James Cuffe

- 11:30 AM **Jessica A Grieger** (*Adelaide Health and Medical Sciences and Robinson Research Institute, University of Adelaide, Adelaide, SA, Australia*)  
*L.E. Grzeskowiak, L. Smithers, T. Bianco-Miotto, S. Leemaqz, P. Andraweera, L. Poston, L.M. McCowan, L.C. Kenny, J. Myers, J.J. Walker, R.J. Norman, G.A. Dekker, C.T. Roberts*  
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 - Oozoa Student Award

11:30AM - 12:30PM

Hall E1

Chairs: Robert Gilchrist & Alexandra Harvey

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- 11:30 AM **Jacinta 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

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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

Hall E1

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- $\alpha$  (ER) positive breast cancer *abs# 117*
- 2:30 PM **Mitchell Lawrence** (*Monash University, Clayton, VIC, Australia*)  
*D. Obinata, S. Sandhu, S. Wong, L. Selth, L. Porter, N. Lister, D. Pook, C. Pezaro, D. Goode, R. Rebello, A. Clark, M. Papargiris, J. Van Gramberg, H. Wang, S. Keerthikumar, A. Hanson, R. Toivanen, H. Thorne, S. Dehm, W. Tilley, R. Pearson, R. Hannan, D. Murphy, M. Frydenberg, L. Furic, R. Taylor, G. Risbridger*  
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

Hall C

Chairs: Michael Mond & Bu Yeap

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- 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 **le-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*)  
*E.D. Jona, B.D. De Courten, G.P. Lambert, L.D. Lambert, S. Phillips, I.P. Clarke, H.P. Teede, B.D. Henry*  
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

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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

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- 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 AT<sub>1</sub>R 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 Luliis, 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*)

*S.M. Solon-Biet, M.C. Edwards, M.J. Cox, W.L. Ledger, R.B. Gilchrist, S.J. Simpson, D.J. Handelsman, K.A. Walters*

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

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ANZPRA

Australian and New Zealand Placental Research Association

- 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*)  
*S. Beard, N.K. Binder, T.J. Kaitu'u-Lino, N. Pritchard, S.P. Walker, S. Tong, N.J. Hannan*  
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

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## 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

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- 8:40 AM **Rohit Kulkarni** (*Joslin Diabetes Center, Boston, MA, United States*)  
The interplay between insulin resistance and  $\beta$ -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 'adhesome' *abs# 143*
- 8:45 AM **Kelly L Walton** (*Monash University, Clayton, VIC, Australia*)  
*H. Parkington, D. Wang, D. Conrad, K. Aston, G. Goodchild, R. Siriwardhana, H. Coleman, C. Harrison, M. O'Bryan*  
A genetic mutation in the inhibin  $\beta$ B-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-Karasoulos, 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

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Reproduction, Fertility and Development

- 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, Woolloon Gabba, 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*)  
*B.H. Mullin, P. Campbell, S.J. Brown, E. Lim, N. Hadlow, J. Joseph, T. Spector, G.F. Watts, S.G. Wilson, B.G. Stuckey*  
Genome Wide Association Study Identifies 5 Novel Loci Associated with Polycystic Ovary Syndrome (PCOS) in Caucasian Women *abs# 153*
- 9:54 AM **Huikai Shi** (*Burns Research, Anzac Research Institute, Sydney, NSW, Australia*)  
*B. Lesmana, B. Condor, R. Parungao, T. Lo, P. Silveira, S. Kim, D. Ma, K. Tasi, U. Simanainen, M. Cooper, P. Maitz, D. Handelsman, Y. Wang*  
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*)  
*T. Dill, S. Faulkner, N. Griffin, P. Jobling, S. King, C. Gedye, J. Tolosa, J. Paul, R. Smith, H. Hondermarck*  
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*



- 11:00 AM **Christopher Nolan** (*Department of Endocrinology and Diabetes, The Canberra Hospital, Woden, ACT, Australia*)  
The islet  $\beta$ -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 periconceptual 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

11:00AM - 12:30PM

Riverbank 2

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*