

SUNDAY 19TH AUGUST 2018

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*^{-/-} 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)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*)
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^{-/-}* 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 α -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



ESA Taft Lecture

8:30AM - 9:30AM

Hall C

Chair: Duncan Topliss

This conference acknowledges the sponsorship of



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



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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- 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 γ *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

This conference acknowledges the sponsorship of



- 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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endocrine society of australia

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- α (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

This conference acknowledges the sponsorship of



- 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 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 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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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 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 '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 β 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

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- 11:00 AM **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 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*

ESA - Basic Science Posters

To be considered for the ESA Best Basic Science Poster Prize



This conference acknowledges the sponsorship of

Eui-Bae Jeung (Chungbuk National University, Seowon-gu, Chungbuk, South Korea)

C. Ahn, E. Jung, Y. Yoo, B. Lee, D. Tran, D. Ly

Calbindin-D_{9k} ablation induces diabetes mellitus like symptom abs# 176

Eui-Bae Jeung (Chungbuk National University, Seowon-gu, Chungbuk, South Korea)

C. Ahn, E. Jung, J. Lee, S. Park, B. Jeon, T. Nguyen

Bisphenol A and Octylphenol induced insulin resistance by endoplasmic reticulum stress in Type 1 diabetes mellitus model abs# 177

Jodie C Avery (Robinson Research Institute, The University of Adelaide, Adelaide, South Australia, Australia)

S. Kedzior, Z. Lassi, V. Moore, M. Davies, A. Rumbold

Manifestation of polycystic ovary syndrome (PCOS) in women in the peri and post-menopausal years abs# 178

John B Bruning (The Scripps Research Institute, Jupiter, Florida, USA)

T. Kamenecka, P.R. Griffin

Structural mechanism of antagonists and partial agonists of PPAR γ for use as antidiabetics abs# 179

Edward Cliff (University of Oxford, Oxford, United Kingdom)

N. Vedovato, D. Spanswick, F.M. Ashcroft

Functional analysis of novel Kir6.2 mutations causing neonatal diabetes abs# 180

Anne-Louise Gannon (The University of Newcastle, Callaghan, NSW, Australia)

L. O'Hara, J.I. Mason, R.T. Mitchell, D. Rebourcet, S. Smith, A. Traveres, H. Frederikson, A.

Jorgensen, L. Milne, L.B. Smith

Ablation of glucocorticoid receptor in the hindbrain of the mouse provides a novel model to investigate stress disorders abs# 184

Jeremy T Keane (Centre for Diabetes, Obesity and Endocrinology, Westmead Institute for Medical Research, Westmead, NSW, Australia)

C. Liddle, J.E. Gunton

Role of Hepatocyte Vitamin D Signalling in Liver Fibrosis abs# 185

Eui-Bae Jeung (Chungbuk National University, Seowon-gu, Chungbuk, South Korea)

J. Lee, E. Jung, Y. Yoo, C. Ahn, B. Lee, B. Jeon, D. Ly, T. Nguyen

Validation study of developmental toxicity test using mouse embryonic stem cells derived embryoid bodies abs# 187

Eui-Bae Jeung (Chungbuk National University, Seowon-gu, Chungbuk, South Korea)

J. Lee, E. Jung, D. Tran, S. Park, B. Jeon

The effect of Octylphenol and Bisphenol A on calcium signalling in differentiated cardiomyocyte from mouse embryonic stem cell abs# 188

Kerry Richard (Queensland Health, Herston, Queensland, Australia)

K.A. Landers, M.C. d'Emden

Transthyretin uptake by the high-density lipoprotein receptor, scavenger receptor class B type 1. abs# 189

Johnson W.S. Setoh (*KK women's and children's Hospital, Singapore*)

C.K. Ho, T.W. Low

Reference interval for Total Bile Acids on Abbott Architect c8000 analyser *abs# 190*

ESA - Clinical Posters

Posters will be considered for two prizes: Best Clinical Study Poster and the Bioscientifica-EDM-Case Reports Best Case Report Poster Prize

Arooj Fatima (*Sir GangaRam Hospital, Lahore, Punjab, Pakistan*)

S. Zaidi

Knowledge assessment of type 2 Diabetes Mellitus in Pakistan *abs# 182*

Arooj Fatima (*Sir GangaRam Hospital, Lahore, Punjab, Pakistan*)

S. Zaidi

Identifying the association of depression and diabetic distress in Pakistani patients diagnosed with type 1 diabetes *abs# 183*

Deniz Kuzulugil (*Department of Endocrinology, John Hunter Hospital, New Lambton Heights, NSW, Australia*)

J. Christie, C. Bendinelli, S. McGrath

Accuracy of pre-operative parathyroid localisation with parathyroid 4D-computer tomography in patients with negative, discordant or bilateral disease on ultrasound and sestamibi scintigraphy – review of single centre experience. *abs# 186*

Caroline Bachmeier (*Endocrinology and Diabetes, Queensland Health, Townsville Hospital, QLD, Australia*)

L. Kuma, M. Collins, K. Sangla

SDHB mutation presenting with spermatic cord and neck paraganglioma *abs# 191*

Caroline Bachmeier (*Endocrinology and Diabetes, Queensland Health, Townsville Hospital, QLD, Australia*)

C. Patel, P. Kanowski, K. Sangla

Should all patients with hyperparathyroidism be screened for a CDC73 mutation? *abs# 192*

Caroline Bachmeier (*Endocrinology and Diabetes, Queensland Health, Townsville Hospital, QLD, Australia*)

U. Malabu

A rare case of Meningococcal sepsis induced testicular failure, primary hypothyroidism and hypoadrenalism – is there a link? *abs# 193*

Caroline Bachmeier (*Endocrinology department, Queensland Diabetes and Endocrine Centre, Mater Hospital, Brisbane, QLD, Australia*)

A. Morton, N. Woodward, M. Haque, H. Barrett

Prodigious hepatic paraganglioma - a long road to diagnosis *abs# 194*

Shananthan Balachandran (*Department of Endocrinology, Eastern Health, Box Hill, VIC, Australia*)

C. Gilfillan

Immunotherapy-induced diabetes mellitus: better recognised and better understood *abs# 195*

Shananthan Balachandran (*Department of Endocrinology, Eastern Health, Box Hill, VIC, Australia*)

C. Gilfillan

Recurrent non-insulinoma pancreatogenous hypoglycaemia syndrome (NIPHS): what else can we do? *abs# 196*

Shananthan Balachandran (*Department of Endocrinology, Eastern Health, Box Hill, VIC, Australia*)

C. Gilfillan, R. Wong

Spindle cell oncocytoma: a rare but important cause for the sellar mass *abs# 197*

Christopher Yates (*Diabetes and Endocrinology, Western Health, Melbourne, VIC, Australia*)

R. Barmanray, P. Hamblin, C. Rodda

Hypo-aged hypovolaemic hyponatraemia *abs# 198*

Emily K Brooks (*Department of Medicine, Ipswich Hospital, Ipswich, QLD, Australia*)

D. Harrop, A. Min

ST-elevation myocardial infarction: an usual presentation of Klinefelter's Syndrome *abs# 199*

James Burgess (*University of Tasmania, Sandy Bay, TAS, Australia*)

V. Parameswaran, J. Burgess

The prevalence and risk factors for renal calcific disease in Multiple Endocrine Neoplasia Type 1-related primary hyperparathyroidism *abs# 200*

Genevieve L Calder (*Department of Diabetes and Endocrinology, St Vincent's Hospital Melbourne, Fitzroy, Victoria, Australia*)

R.J. MacIsaac, N. Sacithanandan, G.M. Ward

Insulin Autoimmune Syndrome: a case of clopidogrel-induced autoimmune hypoglycaemia *abs# 201*

Thora Y Chai (*Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

J. Sung, A. McPhee, D. Farlow, M. Mclean, C. Girgis, D.R. Chipps

Lessons from beyond the Graves' *abs# 202*

Thora Y Chai (*Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

A. McPhee, D. Farlow, D.R. Chipps

Graves' disease, but not as we know it! *abs# 203*

Yee -Ming M Cheung (*Endocrinology, Eastern Health, Melbourne*)

C. Gilfillan, R. Wong

A difficult case of Cushing's disease *abs# 204*

Wenlin Cecilia Chi (*Coastal Endocrinology, Hornsby Endocrine, Hornsby, NSW, Australia*)

P. Clifton-Bligh, C. Girgis

Symmetrical Changes on Bone Scan in a Patient with Breast Cancer *abs# 205*

Kay Hau Choy (*Wollongong Hospital, Wollongong, NSW, Australia*)

I. Goh, J. Kulkarni

Lactation ketoacidosis: a rare cause of metabolic acidosis *abs# 206*

Kay Hau Choy (*Department of Endocrinology and Diabetes, Wollongong Hospital, Wollongong, NSW, Australia*)

N. Busch, E. Agars, Z. Apostoloski

Proton pump inhibitor-induced hypomagnesaemia and hypocalcaemia *abs# 207*

Kay Hau Choy (*Department of Endocrinology and Diabetes, Wollongong Hospital, Wollongong, NSW, Australia*)

T. Van Gemert, J. Zhang, Z. Apostoloski

Extremely low high-density lipoprotein cholesterol *abs# 208*

Eleanor Danek (*Department of Medicine, School of Clinical Sciences, Monash University, Melbourne, VIC, Australia*)

G. Mann, H. Nguyen, P. Wong, P.J. Fuller, A. Vincent, F. Milat

Patients receiving teriparatide in a tertiary referral centre have multiple co-morbidities and fractures but a similar bone mineral density response to published literature *abs# 209*

Sunita MC De Sousa (*Endocrine and Metabolic Unit, Royal Adelaide Hospital, Adelaide, SA, Australia*)

J. Feng, A.W. Schreiber, H.S. Scott, D.J. Torpy

A novel paraganglioma syndrome driven by both germline and somatic mutation *abs# 210*

Deila Dedic (*Fiona Stanley Hospital, Perth, WA, Australia*)

E. Hamilton

Case reports of SIADH in lung-transplant patients on tacrolimus abs# 211

Jessica Disler (*Department of Diabetes and Endocrinology, The Royal Melbourne Hospital, Parkville, Melbourne, Victoria, Australia*)

R. Barmanray, C. Chiang, S. Furlanos, R. Dowling, A. Rhodes, C. Yates

Optimising adrenal vein sampling: assessing the influence of ACTH stimulation abs# 212

Madeline Duke (*Endocrinology, Royal Brisbane and Women's Hospital, Brisbane, Qld, Australia*)

H. Barrett, C. Pretorius, F. Britten, P. Donovan

Maternal metyrapone use during breastfeeding: safe for the breastfed infant abs# 213

Ryan Endall (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Tasmanian Health Service, Hobart, TAS, Australia*)

V. Parameswaran, J. Burgess

The pathogenesis of hypergastrinaemia in MEN 1 and its relationship to Helicobacter Pylori infection abs# 214

Ryan Endall (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Tasmanian Health Service, Hobart, TAS, Australia*)

B. Stokes, P. Otahal, J. Burgess

The natural history of borderline TSH elevation and suppression: a longitudinal population study abs# 215

Hannah Farquhar (*Cairns Hospital, Cairns North, QLD, Australia*)

G. Puri

Headaches from the heart abs# 216

Arooj Fatima (*Sir GangaRam Hospital, Lahore, Punjab, Pakistan*)

S. Zaidi

Diabetic Nephropathy and its early marker abs# 217

Prishila Fookeerah (*Endocrinology department, The Canberra Hospital, Canberra, ACT, Australia*)

C.J. Nolan, S. Newsome

Issues of hypoglycaemia unawareness in a 55 year old man with a proinsulinoma abs# 219

Kathy Fu (*Prince of Wales Hospital, Randwick, New South Wales, Australia*)

Ethical medico-legal and practical considerations for management of hyperthyroidism in the uncooperative patient two case reports abs# 220

Kathy Fu (*Prince of Wales Hospital, Randwick, New South Wales, Australia*)

S. Kumar

Histiocytic diseases affecting the hypothalamic pituitary axis two case reports abs# 221

Matti L Gild (*Kolling Institute of Medical Research, St Leonards, NSW, Australia*)

V. Tsang, M. Sywak, R.J. Clifton-Bligh, B.G. Robinson

Neoadjuvant Lenvatinib: A promising pathway for anaplastic thyroid cancer? abs# 222

Florence Gunawan (*Melbourne Health, Parkville, VIC, Australia*)

S. Furlanos

Recurrent metastatic pheochromocytoma abs# 223

Amy Harding (*Department of Diabetes & Endocrinology, Royal Melbourne Hospital, Parkville, Victoria, Australia*)

C. Chiang

Difficulties interpreting serum cortisol measurement by Immunoassay in a patient with ectopic ACTH syndrome receiving metyrapone therapy abs# 224

Mahbub Hasan (*John Hunter Hospital, Lambton Heights, NSW, Australia*)

B. Walsh

Common metabolic disorders among patients with neck of femur fracture reveals underdiagnoses and undertreatment of osteoporosis in the community *abs# 225*

Madhuni Herath (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Hobart*)

V. Parameswaran, J. Burgess

The paediatric and young adult manifestations and outcomes of Multiple Endocrine Neoplasia Type 1 *abs# 226*

Madhuni Herath (*Department of Medicine, Monash Health, Melbourne*)

E. Ellis, K. Jeyaraman

The central australian experience in thyroid cancer *abs# 227*

Winnie Ho (*Barts and the London School of Medicine and Dentistry, QMUL, London, UK*)

N. Tufton, M. Druce

Shrinking Giant *abs# 228*

Winnie Ho (*Western Health, Melbourne, VIC, Australia*)

P. Hamblin

Maternal resistance to thyroid hormone with foetal genotype unknown *abs# 229*

Thaw Dar Htet (*Garvan Institute of Medical Research, Sydney, NSW, Australia*)

K. Toth, K. Wu, D. Chen

Hyperthyroidism: To treat or not to Treat? *abs# 230*

Flavian Joseph (*Toowoomba Hospital, South Toowoomba, QLD, Australia*)

J. Tellam, S. Cook

The effect of glucocorticoid therapy on adrenal reserve in patients with multiple myeloma. *abs# 231*

Melissa Katz (*Endocrinology and Diabetes, Cairns Hospital, Cairns, Queensland, Australia*)

P. Siriratnam, P. Davoren

Outcomes of pituitary surgery at the Gold Coast University Hospital; the rates of cure for pituitary adenomas, need for subsequent therapy and post-operative hypopituitarism *abs# 232*

Velislava Kiriakova (*Endocrinology, Monash Health, Clayton, Victoria, Australia*)

S.D. Cooray, L. Yeganeh, G. Somarajah, F. Milat, A.J. Vincent

Systematic review and appraisal of clinical practice guidelines using AGREE II instrument to develop an algorithm for assessment and management of bone health in women with premature ovarian insufficiency *abs# 233*

Nithin Kolanu (*St Vincent's Hospital, Arncliffe, NSW, Australia*)

J. Eisman

Disproportionate Hypertriglyceridaemia in a patient with Familial Lipodystrophy *abs# 234*

Winnie Ho (*Royal Melbourne Hospital, Parkville, Victoria, Australia*)

M.E. Koome, R. Barmanray, B. Yan, M. Pace

Follow-up of incidental thyroid nodules detected on computed tomography angiography of the head and neck *abs# 235*

Johanna Kuehn (*Department of Diabetes & Endocrinology, John Hunter Hospital, Newcastle, NSW, Australia*)

C. Bendinelli, C.W. Rowe, F. Amico

Management of an intrathyroidal cystic parathyroid gland with posttraumatic haemorrhagic transformation causing acute airway compromise *abs# 236*

Deniz Kuzulugil (*Department of Endocrinology, John Hunter Hospital, New Lambton Heights, NSW, Australia*)

K. Soeyland, M. Formby, C. O'Neill, C. Sankoorikal

Spermatic cord paraganglioma *abs# 237*

Nicole Lafontaine Bedecarratz (*Eastern Health, Melbourne, VIC, Australia*)

C. Gilfillan, R. Simpson, R. Wong

Streptococcus anginosus suppurative thyroiditis: a case report *abs# 238*

Nicole Lafontaine Bedecarratz (*Eastern Health, Melbourne, VIC, Australia*)

S. Balachandran, C. Gilfillan

A retrospective audit of ^{99m}Tc-sestamibi parathyroid scans with SPECT reconstruction at Maroondah Hospital *abs# 239*

Lydia S Lamb (*Department of Endocrinology and Diabetes, Sir Charles Gairdner Hospital, Perth, Western Australia, Australia*)

D. Henley, R. Zhang, C. Boyder, B. Perriam, E. Lim

Comparison of LCMSMS, HPLC and two automated immunoassay methods in a cohort of patients with clinically confirmed Cushing's syndrome *abs# 240*

Lan Lan (*Barwon Health, Geelong, VIC, Australia*)

C. Yap, D. Watters, M. Kotowicz

Evolution of an unexpected lump *abs# 241*

Kiri Langford (*Department of Endocrinology, Concord Repatriation General Hospital, Sydney, NSW, Australia*)

B. Kwan, M. Abeysekera, R. Rajaratnam, B. Crawford

REDCap is a secure web-based application and provides a useful tool for establishing a national audit of pituitary surgery *abs# 242*

Bon Hyang Lee (*Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

J. Sung, J. Snaith, J. Lai, J. Ryan, S. Lim-Tio

Adrenal Venous Sampling (AVS): Practical Implementation and Outcomes *abs# 243*

Nele F Lenders (*Department of Endocrinology, Garvan Institute of Medical Research, Sydney, NSW, Australia*)

A.I. McCormack

Masquerade or mystery? *abs# 244*

Andrew G Lin (*Diabetes and Endocrine Service, Liverpool Hospital, Sydney, NSW, Australia*)

H. Russell, S. Rajagopalan, N.S. Lau

A novel CASR variant (c.2540G>A;p.Gly847Asp) in an Fijian Indian man with familial hypocalciuric hypercalcaemia *abs# 245*

Yu-Chin Lo (*Department of Diabetes and Endocrinology, Cairns Hospital, Queensland Health, Cairns North, QLD, Australia*)

A. McLean, A. Sinha

Not your usual case of Low Testosterone *abs# 246*

Jack Lockett (*Department of Diabetes and Endocrinology, Princess Alexandra Hospital, Woolloongabba, QLD, Australia*)

K.E. Berkman, G. Dimeski, A.W. Russell, W.J. Inder

Urea improves hyponatraemia in fluid restriction refractory SIADH *abs# 247*

Nuttaradee Lojanapiwat (*General Medicine, Goulburn Valley Health, Shepparton, Victoria, Australia*)

J. Wong, N. Naderpoor

Aetiology of Hyperparathyroidism in Coeliac Disease: Tertiary and Quaternary Hyperparathyroidism? *abs# 248*

Manik J Mayadunne (*Royal North Shore Hospital, Sydney, NSW*)

L. March, R. Clifton-Bligh, C. Girgis

Life after denosumab: strategies to mitigate bone density loss in patients discontinuing denosumab *abs# 249*

Angela McPhee (*Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

T. Chai, T. Lam

Not always as easy as 'αβC': A case of pheochromocytoma with challenging pre-operative preparation *abs# 250*

Alice Minchin (*Department of Medicine, Western Health, Melbourne, Victoria, Australia*)

E. Ng, A. Sliwinski, J.G. Huang, H. O'Connell, P. Hamblin

Screening for metabolic adverse effects in men with prostate cancer treated with androgen deprivation therapy in a large Melbourne hospital network *abs# 251*

Mina Mohammad Ebrahim (*Eastern Health, Box Hill, VIC, Australia*)

C. Gilfillan, N. Hogan

Experience with sodium–glucose co-transporter 2 inhibitors initiation in a public hospital diabetes outpatient population *abs# 252*

Kirsten Neal (*Endocrinology, Royal North Shore Hospital, Sydney, NSW, Australia*)

R. Clifton-Bligh

Postpartum rhythm and blues: paraganglioma masquerading as hypertension and pre-eclampsia in pregnancy *abs# 253*

Marni Nenke (*Endocrine and Metabolic Unit, Royal Adelaide Hospital, Adelaide, SA, Australia*)

K. Campbell, G. Tallis, J. Moran, J. Horowitz, G. Cehic

Takotsubo cardiomyopathy – A case report in a patient with metastatic pheochromocytoma receiving steroids with peptide receptor radionuclide therapy *abs# 254*

Elisabeth Ng (*Department of Medicine, The Alfred Hospital, Melbourne, Victoria, Australia*)

A. Leaney, S. Sztal-Mazer

Management dilemmas with denosumab: rebound vertebral fractures during a planned dental procedure 12 days post pre-empted delayed denosumab dose *abs# 255*

Mark Ng Tang Fui (*Austin Health, Heidelberg, Victoria, Australia*)

R. Hoermann, M. Grossmann

Testicular size as a reflection of masculinity *abs# 256*

Brendan J Nolan (*Endocrinology, Northern Health, Melbourne, VIC, Australia*)

M. Lee, S. Varadarajan

A curious case of ketoacidosis *abs# 257*

Ravind Pandher (*St George Hospital, Erskineville, NSW, Australia*)

A. Puvanendran, T. Diamond

Title: Licorice-induced apparent mineralocorticoid excess and normal pressure hydrocephalus *abs# 258*

Shivani Patel (*Campbelltown Hospital, Campbelltown, NSW, Australia*)

K. Ho

The effectiveness of Liraglutide (Saxenda) for weight loss real world data from a community clinic *abs# 259*

Faseeha C Peer (*Department of Diabetes and Endocrinology, Cairns Hospital, Cairns, QLD, Australia*)

H.E. Farquhar, A.K. Sinha, L.J. Conway

A pituitary mimic manifesting as cardiac tamponade *abs# 260*

Faseeha C Peer (*Department of Diabetes and Endocrinology, Cairns Hospital, Cairns, QLD, Australia*)

R.M. Reyaldeen, A.K. Sinha, L.J. Conway

Hypothyroidism presenting with synchronous intracerebral haemorrhage and cardiac tamponade *abs# 261*

Walter E. Plehwe (*The Epworth Centre, Richmond, VIC, Australia*)

A. Saqib

Hypoparathyroidism-independent hypocalcaemia in severe hypomagnesaemia. *abs# 262*

Vicka Poudyal (*Flinders Medical Centre, Ascot Park, SA, Australia*)

S. Stranks, J. Li

Sugar High: An unusual case of hyperglycaemia *abs# 263*

Sarah Y Qian (*Department of Endocrinology and Diabetes, Western Health, Footscray, VIC, Australia*)

P. Hamblin

Hidden in plain sight an unusual presentation of growth hormone excess *abs# 264*

Sabashini K Ramchand (*Department of Endocrinology, Austin Health, Melbourne, Victoria, Australia*)

S.J. Haikerwal, B. Yeo, M. Grossmann

Endocrine Therapy in Women with Early Breast Cancer – Experience of a Tertiary Centre Combined Endocrinology-Oncology Breast Cancer Service *abs# 265*

Simon Ryder (*Royal Brisbane & Womens Hospital, Queensland Health, Brisbane, QLD, Australia*)

T. Hadwen

Androgen replacement for male hypogonadism after PBS restrictions of 2015 *abs# 266*

Amanda Seabrook (*Familial Cancer Service, Royal North Shore Hospital, Sydney, NSW, Australia*)

K. Tucker, M. McCabe, M. Isaacs, N. Sheriff, M. Warby, A. McCormack

MEN4, the MEN1 mimicker; the discovery of a novel pathogenic variant in the *CDKN1B* gene. *abs# 267*

Shekhar Sehgal (*Endocrinology, Waitemata DHB, Auckland, NZ*)

Z. Raos, M. Croxson, M. Rodgers

A case of a large adrenal myelolipoma in a patient with congenital adrenal hyperplasia *abs# 268*

Sonali Shah (*Department of Endocrinology, Monash Health, Clayton, VIC, Australia*)

P.R. Ebeling

Acquired osteosclerosis secondary to signet-ring cell adenocarcinoma *abs# 269*

Angeline Shen (*Royal Melbourne Hospital, Melbourne, VIC, Australia*)

H.M. Torpy, L. Phillips, J. King, S. Das, C. Yates, D.J. Torpy, P. Colman

Clinical outcomes and factors that contribute to long-term remission after pituitary surgery in patients with Cushing's disease: experience from two Australian Tertiary Hospitals. *abs# 270*

Angeline Shen (*Dept Diabetes & Endocrinology, Royal Melbourne Hospital, Parkville, Melbourne*)

J. King, S. Das, C. Yates, P. Colman

Clinical characterisation of patients with Acromegaly: A single centre experience *abs# 271*

Ranita Siru (*Fiona Stanley Hospital, Murdoch, WA, Australia*)

A. Cussons, E. Lim

Hypertension in adrenocortical carcinoma: lessons learned *abs# 272*

Jennifer Snaith (*Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

D. Chipps, C. Girgis

Navigating Medication Availability: Combination Fluconazole and Metyrapone to Treat Ectopic Cushing's Syndrome *abs# 273*

Tarryn Sohn (*Department of Endocrinology and Diabetes, Fiona Stanley Hospital, Perth, Western Australia, Australia*)

Y. Chan, G. Wittert, M. Grossmann, W. Inder, D. Jesudason, M. Ng Tang Fui, K. Bracken, B. Yeap

Characterising baseline motivation and engagement in healthy lifestyle behaviours in participants in the testosterone for type 2 diabetes prevention in men (T4DM) Study *abs# 274*

Jasper Sung (*Westmead Hospital, Westmead, NSW, Australia*)

J. Snaith, T. Chai, J. Holmes-Walker

Parathyroid carcinoma during pregnancy *abs# 275*

Hong Lin Evelyn Tan (*Department of Endocrinology and Diabetes, John Hunter Hospital, New Lambton, NSW, Australia*)

S. Acharya

Isolated post-prandial hypoglycaemia and a negative 72 hour fast – an unusual case of proinsulinoma *abs# 276*

Hong Lin Evelyn Tan (*John Hunter Hospital, NSW*)

E. Croker, C. Chew, J. Weigner, C. Bendinelli, S. McGrath, C. Rowe

The whole is greater than the sum of its parts: synthesised triple-assessment of thyroid nodules optimises pre-operative risk-stratification *abs# 277*

Chau Thien Tay (*Monash Centre for Health Research and Implementation, Clayton, VIC, Australia*)

A. Joham, D. Hiam, M. Gadalla, J. Pundir, S. Thangaratnam, H. Teede, L. Moran

Pharmacological and surgical treatment of non-fertility outcomes in polycystic ovary syndrome: an overview of systematic reviews *abs# 278*

Senthil Thillainadesan (*Department of Endocrinology, Royal Prince Alfred Hospital, Camperdown, NSW, Australia*)

S. Hocking, J. Sy

Pituitary abscess or a Rathke's cleft cyst? *abs# 279*

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B. Stuckey, S. Brown, M. Tanner, S. Carrivick, C. Boyder, R. Zhang, E. Lim

Dihydrotestosterone and Testosterone in a cohort of hyperandrogenaemic women with Polycystic Ovarian Syndrome, Congenital Adrenal Hyperplasia and Androgen-secreting Tumours *abs# 280*

Danielle Tu (*ACT Health, ACT*)

A. Collins, S. Perampalam

A rare complication of Hashimoto's Thyroiditis *abs# 281*

Tegan van Gemert (*The Wollongong Hospital, Wollongong, NSW, Australia*)

K. Choy, Z. Apostoloski

Diabetic ketoacidosis and hypertriglyceridaemic pancreatitis in undiagnosed type 2 diabetes mellitus - a case report and literature review of the management of severe hypertriglyceridaemic pancreatitis *abs# 282*

Udai Wijetunga (*Diabetes Research Unit, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka*)

P. Katulanda

Socio-economic risk factors for hypoglycemic episodes in young Sri Lankan adults with diabetes *abs# 283*

Udai Wijetunga (*Diabetes Research Unit, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka*)

P. Katulanda, S. Perera, H. Dissanayake

A rare case of an intra-cavernous carotid aneurysm masquerading as a pituitary adenoma *abs# 284*

Ayanthi A Wijewardene (*Prince of Wales Hospital, Randwick, NSW, Australia*)

K.S. Haghghi, S. Lau

1,25-dihydroxyvitamin D-associated hypercalcemia in a metastatic pancreatic neuroendocrine tumour *abs# 285*

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K. Tucker, I. Ho-Shon, S. Lau

False positive Iodine-123 (123-I) metaiodobenzylguanidine (MIBG) scintigraphy in large adrenocortical neoplasm *abs# 286*

Jun Yang (*Endocrinology, Monash Health, Clayton, Victoria, Australia*)

Y. Lim, J. Shen, P.J. Fuller

Current pattern of primary aldosteronism diagnosis: delayed and complicated *abs# 287*

Sin Dee Yap (*Department of Medicine, Alfred Health, Melbourne, Victoria, Australia*)

E. Ng, S. Sztal-Mazer

Role of alert sticker in improving detection of neonatal hyperthyroidism among pregnant women with Graves' disease *abs# 288*

Sylvia Ye (*Endocrinology, Eastern Health, Box Hill, Victoria, Australia*)

N. Lafontaine Bedecarratz, C. Gilfillan, J. Ng

Addisonian crisis and pancytopenia as first presentation of Addison's disease: a case report *abs# 289*

Ming Li Yee (*Monash University, Melbourne, Victoria, Australia*)

S. Einoder, B. Strauss, C. Gilfillan

Calf circumference as a clinical marker of sarcopenia in women *abs# 290*

Ming Li Yee (*Department of Endocrinology, Eastern Health, Melbourne, VIC, Australia*)

R. Hau, A. Taylor, P. Darzins, C. Gilfillan

Body composition in elderly women with hip fracture *abs# 291*

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K. Choi, S. Gwini, J. Yang, P. Fuller

Twenty-four-hour urinary sodium and aldosterone excretion in hypertensive patients may indicate underlying primary aldosteronism *abs# 292*