
CONTENTS

CONFERENCE SPONSORS	INSIDE FRONT COVER
WELCOME FROM THE PRESIDENTS	2
WELCOME FROM THE LOC CHAIRS	2
SOCIETY SECRETARIATS	3
ESA-SRB 2017 PROGRAM ORGANISING COMMITTEE	4
ESA-SRB LOCAL ORGANISING COMMITTEE	5
ESA PROGRAM ORGANISING COMMITTEE	5
ESA OFFICE BEARERS 2017	5
PAST ESA OFFICE BEARERS 1958-2017	6
SPONSORS, AWARDS AND LECTURERS OF THE ENDOCRINE SOCIETY OF AUSTRALIA	6
SRB OFFICE BEARERS 2017	12
PAST SRB OFFICE BEARERS 1969 - 2017	12
SPONSORS, AWARDS AND LECTURERS OF THE SOCIETY FOR REPRODUCTIVE BIOLOGY	13
ESA-SRB AWARDS	16
DELEGATE INFORMATION	18
ESA-SRB INVITED PLENARY LECTURER PROFILES 2017	22
ESA-SRB SYMPOSIA SPEAKERS	24
ESA-SRB PROGRAM	26
SUNDAY 27TH AUGUST 2017	26
MONDAY 28TH AUGUST 2017	28
TUESDAY 29TH AUGUST 2017	41
WEDNESDAY 30TH AUGUST 2017	49
ESA POSTER LISTING	56
SRB POSTER LISTING	66
SPONSOR AND TRADE PARTICIPANTS	69
AUTHOR LISTING	72
NOTES	78

Cover Image: A paraffin section of E15.5 wildtype mouse testis fluorescently stained with antibodies detecting the Sertoli cell marker SOX9 (green) and the Leydig cell marker 3 β -HSD (red). Nuclei (blue) are stained with DAPI. Sertoli cells are found within the tubular-like testes cords and play multiple roles in testes cell differentiation and morphogenesis. On the other hand, Leydig cells populate the interstitial compartment and mediate male steroidogenesis.

Anthony D. Bird¹, Stefan Bagheri-Fam², Vincent Harley¹

1. Centre for Reproductive Health, Hudson Institute of Medical Research
2. Department of Anatomy and Neuroscience, The University of Melbourne

WELCOME FROM THE PRESIDENTS

The Presidents of the Endocrine Society of Australia, Society for Reproductive Biology wish you a warm welcome to this joint meeting spanning key areas in endocrinology and reproductive biology and in partnership with the Australian Diabetes Society.

The response to this meeting has been overwhelmingly positive in terms of collaboration, industry sponsorship and registrations, and we thank ASN for their help in organisational support. We congratulate the programme organising committees of each society for developing a rich programme of clinical and basic science exploiting the synergies between our societies.

Similarly, we thank the local organising committee for ensuring many and excellent opportunities for celebration and collaboration between our three societies, in this beautiful location. Between the two streams of plenary presentations, symposia, lectures, oral abstracts, poster sessions, and young investigator awards, and the many social events, we are sure you will have plenty to occupy your time!

We hope all attendees will enjoy the meeting, and leave enriched and enthused by their experiences.



Warrick Inder
ESA President



Chris O'Neill
SRB President

WELCOME FROM THE LOC CHAIRS

On behalf of the programme and local organising committees of the Endocrine Society of Australia and the Society for Reproductive Biology, we would like to extend our warmest welcome to the 2017 combined Annual Scientific Meeting in Perth.

The programme organising committees of both societies have been planning and working tirelessly on this meeting and have put together an exciting programme. They have brought together local, national and international speakers to a scientific program paired with ample opportunities to socialise and enjoy this beautiful location.

We hope you will take the opportunity to explore Perth and the South-West region of Western Australia. The Perth Convention and Exhibition Centre is located along the beautiful Swan River adjacent to Elizabeth Quay - breathing new life into Perth. The nearby riverside Kings Park and Botanic Garden on Mt. Eliza offer sweeping views of the city. Watch an ocean sunset at Cottesloe Beach, or take a day trip out to the Swan Valley to enjoy the food and wine trail.

We are looking forward to some excellent science, and good times with friends and colleagues from all over the world.



Emma Hamilton
ESA LOC Chair



Jeremy Smith
SRB LOC Chair

SOCIETY SECRETARIATS

Endocrine Society of Australia

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Society for Reproductive Biology

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Contact person: Mark Green
www.srb.org.au

Conference Secretariat – ASN Events

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Fitzroy VIC 3065
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Fax: 03 8658 9531
jf@asnevents.net.au
Contact person: Jim Fawcett
www.asn.events

Other Meetings of Interest

ENSA

28th August 2017
Perth Convention and Exhibition Centre, WA
www.ensa.org.au/ensa2017

ADS-ADEA 2017

30th August – 1st September 2017
Perth Convention and Exhibition Centre, WA
www.ads-adea.org.au

ISP 2017

30th August – 2nd September 2017
Sofitel Sydney Wentworth, NSW
www.isp2017.org

AMS 2017

13th – 15th October 2017
Sofitel Sydney Wentworth, NSW
www.ams2017.org

ESA Seminar 2018

QT, Canberra
4 – 6 May 2018
www.esaseminar.org.au

ESA Clinical Weekend 2018

Adelaide, South Australia
17 – 19 August
www.esaclinicalweekend.org.au

ESA-SRB 2018

Adelaide Convention Centre
19 – 22 August
www.esa-srb.org.au

**Frances Milat (ESA POC Co-Chair)***Hudson Institute of Medical Research*

Clinical Associate Professor Frances Milat is an Endocrinologist, Head of the Metabolic Bone Services at Monash Health and Head of the Metabolic Bone Research Group at the Hudson Institute. She graduated from Medicine at Monash University in 1996 and completed endocrine training at Monash Health and St Vincent's Hospital in Sydney. She pursued her research interest in metabolic bone disorders, obtaining an MD examining mechanisms of PTH and Wnt pathway action in bone at St Vincent's Institute (University of Melbourne). Fran is committed to improving patient care through clinical research, with interests in metabolic bone disorders associated with transfusion-dependent haemoglobinopathies, chronic neurological diseases, pregnancy, renal disease and other medical conditions. She is involved in the supervision of research students as well as medical student and postgraduate teaching. She is the current Co-chair of the ESA Annual Scientific Meeting Program Organising Committee (2016-18).

**Renea Taylor (ESA POC Co-Chair)***Monash University*

Dr Renea Taylor is a Senior Lecturer and Research Fellow in the Department of Physiology and Biomedicine Discovery Institute, Monash University. She graduated with a PhD in Reproductive Endocrinology in 2003 at Monash University and completed her postdoctoral training in Stem Cell Biology at the National Stem Cell Centre. She pursued her research interest in hormone-dependent cancer, specialising in prostate cancer. The focus of her research program is the hormonal regulation of prostate stem cells and their interaction with the tumour microenvironment. More recently, Dr Taylor's team has focused on elucidating the endocrine and metabolic changes that occur in obesity that may contribute to prostate cancer disease progression. She has established a translational approach to her research, developing and applying clinically relevant models to study prostate cancer, in collaboration with urology, pathology and oncology colleagues. Renea has been a long standing member of the Endocrine Society of Australia, and was a previous recipient of the Novartis Junior Scientist Award and the Servier Award. She is a full member of the US Endocrine Society as well the Australian and US Women in Endocrinology organisations. In her academic role at Monash University, she is committed to training the future research scientists in both undergraduate and postgraduate courses and is a particular advocate for young women. She plays a key role in science communication and dedicates significant time to the promotion of prostate cancer awareness in the community.

**Brett Nixon (SRB POC Co-Chair)***University of Newcastle*

Dr Brett Nixon obtained his PhD in 1999 from the University of Newcastle and the Vertebrate Biocontrol CRC. He then undertook post-doctoral research in the Department of Cell Biology, Emory University, GA, USA (1999-2000) centred on the characterisation of knockout mouse models bearing targeted deletions of key proteins involved in gamete interactions. In 2001, Brett returned to the University of Newcastle and has since established a research program focusing on the molecular basis of mammalian gamete interaction. He is particularly interested in driving applied outcomes to help improve the diagnosis and treatment of male infertility and to inform the development of novel contraceptive strategies.

**Kirsty Walters (SRB POC Co-Chair)***University of New South Wales*

Dr Kirsty Walters was awarded her PhD in 2005 from the University of Edinburgh, Scotland for her work on the role of the insulin-like growth factor (IGF) system in ovarian follicular development. Subsequently she was recruited to the ANZAC Research Institute, Sydney, where her research focused on the role of androgens in female reproduction and polycystic ovary syndrome (PCOS). Dr Walters has recently joined the University of New South Wales, Sydney, where she is lab head of the Ovarian Biology group.

ESA-SRB LOCAL ORGANISING COMMITTEE

Emma Hamilton (ESA Chair)

Fiona Stanley and Fremantle Hospital

Jeremy Smith (SRB Chair)

University of Western Australia

Yi Xian Chan

University of Western Australia

Richard Gauci

Fiona Stanley Hospital, SKG Radiology, Anthony Street Specialist Centre, St John of God Hospital

ESA PROGRAM ORGANISING COMMITTEE

Frances Milat (Co-Chair)

Hudson Institute of Medical Research

Renea Taylor (Co-Chair)

Monash University

Simon Chu

Hudson Institute of Medical Research

Amanda Vincent

Australasian Menopause Society

John Wentworth

Royal Melbourne Hospital

Christopher Yates

Royal Melbourne Hospital & Western Hospital

SRB PROGRAM ORGANISING COMMITTEE

Brett Nixon (Co-Chair)

University of Newcastle

Kirsty Walters (Co-Chair)

University of New South Wales

Hannah Brown (Public Forum)

University of Adelaide

Patrick Western (Awards Chairman)

Hudson Institute for Medical Research

ESA OFFICE BEARERS 2017

President

Warrick Inder

President Elect

Tim Cole

Secretary

Morton Burt

Treasurer

Nicolette Hodyl

Past President

Helena Teede

Councillors

Chen Chen

Mathis Grossmann

Craig Harrison

Belinda Henry

Ann McCormack

Ashim Sinha

Bu Beng Yeap

PAST ESA OFFICE BEARERS 1958-2017

YEAR	PRESIDENT	PRESIDENT ELECT	SECRETARY	TREASURER
1958-60	E. Downie		P. Taft	P. Taft
1960-62	C. W. Emmens		K. Harrison	K. Harrison
1962-64	K. Harrison C. W. Emmens (March 63)		I. Thomas	I. Thomas
1964-66	B. Hetzel	V. Trikojus	I. Jarrett	I. Jarrett
1966-68	B. Hudson	V. Trikojus	R. Melick	I. Jarrett
1968-70	P. Taft	R. Cox	R. Melick	I. Jarrett
1970-72	I. Jarrett	K. Ferguson	T. J. Martin	L. Lazarus
1972-74	K. Ferguson	L. Lazarus	R. D. Gordon	L. Lazarus
1974-76	H. G. Burger	J. R. Turtle	S. Posen	C. J. Eastman
1976-78	S. Posen	J. P. Coghlan	P. E. Harding	C. J. Eastman
1978-80	J. P. Coghlan	C. J. Eastman	R. G. Larkins	J. W. Funder
1980-82	C. J. Eastman	J. W. Funder	D. P. Cameron	G. L. Warne
1982-84	J. W. Funder	R. G. Larkins	R. C. Baxter	G. L. Warne
1984-86	R. G. Larkins	D. P. Cameron	R. C. Baxter	D. M. Hurley
1986-88	D. P. Cameron	R. C. Baxter	S. J. Judd	D. M. Hurley
1988-90	R. C. Baxter	S. J. Judd	J. R. Stockigt	D. J. Handelsman
1990-92	J. R. Stockigt	J. A. Eisman	G. W. Tregear	D. J. Handelsman
1992-94	D. J. Handelsman	P. J. Fuller	R. L. Prince	D. J. Topliss
1994-96	P. J. Fuller	R. L. Prince	G. P. Risbridger	D. J. Topliss
1996-98	D. J. Topliss	R. J. Rodgers	G. P. Risbridger	M. S. Lewitt
1998-00	R. J. Rodgers	J. D. Zajac	K. K. Y. Ho	M. S. Lewitt B. J. Waddell (May 99)
2000-02	K. K. Y. Ho	B. J. Waddell	B. Canny	C. Coulter
2002-03	B. Canny	J. D. Zajac	R. Cuneo	C. Coulter
2004-06	J. D. Zajac	L. Bach	M. McLean	V. Clifton
2006-08	L. Bach	M. McLean	D. Phillips	V. Clifton
2009-10	M. McLean	V. Clifton	D. Phillips	B. Yeap V. Clifton (Feb 10)
2010-12	V. Clifton	P. Ebeling	T. Cole	W. Inder
2012-13	P. Ebeling	H. Teede	T. Cole	W. Inder
2013-14	P. Ebeling	H. Teede	T. Cole	W. Inder
2014-15	H. Teede	W. Inder	T. Cole	N. Hodyl
2015-16	H. Teede	W. Inder	T. Cole	N. Hodyl
2016-17	W. Inder	T. Cole	M. Burt	N. Hodyl

SPONSORS, AWARDS AND LECTURERS OF THE ENDOCRINE SOCIETY OF AUSTRALIA

ESA AWARD SPONSORS



KEITH HARRISON MEMORIAL LECTURERS

The Keith Harrison Memorial Lecture is given each year at the ESA Annual Scientific Meeting in honour of Prof Keith Harrison, one of the founders of ESA and an early President.

1964	Kenneth Ferguson	1995	Natalie Josso
1965	Geoffrey Harris	1996	Gregory Mundy
1973	Albert Renold	1997	M. Geoffrey Rosenfeld
1974	Paul Franchimont	1998	Ken Korach
1975	William Odell	1999	Henry Burger
1976	John Landon	2000	Pierre Chambon
1977	Hugh Niall	2001	Jack Martin
1978	Samuel Yen	2002	George Chrousos
1979	John Shine	2003	Derek LeRoith
1980	Ronald Swerdloff	2004	Bruce McEwen
1981	Sidney Ingbar	2005	Richard Pestell
1982	Jens Rehfeld	2006	William Crowley
1983	Philip Lowry	2007	Gerard Karsenty
1984	Fernand Labrie	2008	Colin Ward
1985	Michael Berridge	2009	John Cidlowski
1986	Michael Thorner	2010	Stafford Lightman
1987	Lynn Loriaux	2011	Paul Stewart
1988	Axel Ulrich	2012	Lucilla Poston
1989	Hiroo Imura	2013	Matthew During
1990	Iain McIntyre	2014	Sundeep Khosla
1991	Eli Adashi	2015	Richard Santen
1992	Jan-Ake Gustafsson	2016	Stephen Franks
1993	Eberhard Nieschlag	2017	Márta Korbonits
1994	Allen Spiegel		

PINCUS TAFT MEMORIAL LECTURERS

Pincus was a founder of clinical endocrinology in Melbourne and in Australia. As the obituary states he was the inspiration and role model for many younger colleagues to take up endocrinology. He had a rare ability to accord respect to all his colleagues from interns and JRMOs through to contemporaries while still being able to instruct or guide them according to an uncompromisingly high standard and he was never afraid to openly acknowledge someone else's ideas if he thought they were better than his [although not a common occurrence].

1994	C Ronald Kahn	2007	Robert J Smith
1995	William Bremner	2008	William F Young Jr
1996	Steven Lamberts	2009	Karen Miller
1997	George Brabant	2010	Karel Pacak
1998	Simeon Taylor	2011	Kathleen Hoeger
1999	Christopher K Glass	2012	Gudmundur Johannsson
2001	Domenico Accilli	2013	Anthony Hollenberg
2002	Paul Stewart	2014	John Wass
2003	Terry Davies	2015	Michael Tuttle
2004	Peter E Clayton	2016	Constantine Stratakis
2005	David Dunger	2017	Gerard Conway
2006	Sadaf Farooqi		

ESA NOVARTIS JUNIOR INVESTIGATOR AWARD

The Novartis Junior Investigator Award is awarded annually to a member who is a postgraduate student or recently graduated post-doctoral fellow, for the best original paper at the Annual Scientific Meeting.

1976	Kathryn Rich & Peter Fuller	1997	Bu Yeap
1977	David Kennaway	1998	Julie Joyner
1978	David Healy	1999	Renea Jarred & Helena Teede
1979	George Werther	2000	Jeremy Smith
1980	Rebecca Mason	2001	Stephen Heady
1981	Yvonne Hodgson	2002	Patrick McManamny
1982	David Hurley	2003	Sophie Chan
1983	Carolyn Scott	2004	Esme Hatchell
1984	David James	2005	Agnes Kovacic & Amy Au
1985	Guck Ooi	2006	David Macintyre
1986	Marie Ranson	2007	Marrienne Elston
1987	Lora Hutchinson	2008	Sue Lau
1988	Vasilious Papadopoulos	2009	Kenneth Ho
1989	David Phillips	2010	Lyndal Tacon
1990	Sharon Gargosky	2011	Jun Yang
1991	Marie-Christine Keightley & Helen Maclean	2012	Patrick Candy
1992	Fiona Young	2013	Kevin Lee Tao-Kwang
1993	Emma Ball	2014	Marianna Volpert
1994	Vicki Clifton	2015	Dilys TH Leung
1995	Michael Downes & Sylvia Lim-Tio	2016	Ashlee Clark
1996	John Walsh		

ESA BRYAN HUDSON CLINICAL ENDOCRINOLOGY AWARD



The ESA Bryan Hudson Clinical Endocrinology Award is awarded annually to recognise the best clinical research presentation at the Annual Scientific Meeting by an active member of the Endocrine Society of Australia early in their career.

2004	Sonia Davison	2011	Lucia Gagliardi
2005	Carolyn Allan	2012	Caroline Jung
2006	Jui Ho	2013	Emily Gianatti
2007	Morton Burt	2014	Phillip Wong
2008	Ann McCormack	2015	Ada Cheung
2009	Paul Lee	2016	Mark Ng Tang Fui
2010	Jeremy Hoang		

ESA / IPSEN INTERNATIONAL TRAVEL GRANT

This award supports younger members of the society to travel to international meetings, laboratories and/or clinics to further their training and knowledge in Endocrinology.

2003	Emma Ball
2004	Gordon Howarth, Sophie Chan and Vincenzo Russo
2005	Stuart Ellem
2006	Kevin Pflieger and Eroscha Premaratne
2007	Lisa-Marie Atkin, Elspeth Gold and Michael Stark
2008	Elif Ekinci, Andrew Siebel, Jenny Chow
2009	Michelle Van Sinderen, Jyotsna Pippal and Ulla Simanainen
2010	Wee-Ching Kong, Fredrick Steyn, Ann McCormack
2011	Stacey Jamieson, Kristy Brown, Kevin Knower
2012	Christopher Yates, Dana Briggs, Shyuan Ngo, Sarah To
2013	Christian Girgis, Jenna Haverfield, Steven Yau
2014	Malgorzata Brzozowska, Kelly Walton
2015	Sally Abell, Sybil McAuley, Jaesung Peter Choi
2016	Aneta Stefanidis, Rajini Sreenivasan
2017	Dilys Leung, Sabashini Ramchand, Soulmaz Shorakae

ESA SERVIER AWARD

The Servier Award is made annually to recognise the best scientific paper published in the 12-month period preceding the closing date for abstracts for the Annual Scientific Meeting by an active member of the Endocrine Society of Australia early in their career.

1991	Sharon Gargosky	2005	Simon Chu
1992	Peter Stanton	2006	Renea Taylor
1993	Janet Martin	2007	Kirsten McTavish
1994	Chen Chen	2008	Belinda Henry
1995	Timothy Crowe	2009	Kristy Brown
1996	Jun-Ping Lui	2010	Zoe Hyde
1997	Liza O'Donnell	2011	Stefan Bagheri-Fam
1998	Stephen Twigg	2012	Priya Sumithran
1999	Dan Lee	2013	Jennifer Lo
2000	Fraser Rogerson	2014	Anthony Bird
2001	Karen Kroeger	2015	Christian Girgis
2002	Susan Fanayan	2016	Justin Chen
2003	Jenny Gunton	2017	Jimmy Shen
2004	Peter Liu		

ESA MID-CAREER RESEARCH AWARD

The ESA Mid-Career Research Award recognises an outstanding mid-career researcher in endocrinology.

2009	Rachel Davey	2014	Kevin Pflieger
2010	Peter Liu	2015	Lisa Moran
2011	Mathis Grossmann	2016	*Not awarded
2012	Emma Duncan	2017	Frances Milat
2013	Zane Andrews		

ESA SENIOR PLENARY AWARD

The ESA Senior Plenary Award recognises an outstanding research career in the field of Endocrinology in Australia

2011	Ken Ho	2015	Evan Simpson
2012	Gail Risbridger	2016	Wayne Tilley
2013	Geoffrey Tregear	2017	Patrick M Sexton
2014	Iain Clarke		

WE / ESA AUSTRALIAN WOMEN IN ENDOCRINOLOGY (AWE) TRAVEL AWARDS

2001	Karen Kroger, Elizabeth Nye	2009	Kesha Rana, Stacey Jamieson, Kavitha Iyer, Vita Birzniece
2002	Aylin Hanyaloglu, Kylie Hewitt	2010	Sarah To, Liza Phillips
2003	Nicola Solomon, Carolyn Allan	2011	Jun Yang, Shirin Hussain
2004	Renea Jarred, Rachel Hill	2012	Lili Huang, Kara Britt
2005	Teresa Hickey, Agnes Kovacic	2013	Anju Joham, Helen Barrett
2006	Rebecca Robker, Nichola Thompson	2014	Kathryn Hackman, Sarah Gastras
2007	Sue Mei Lau, Ashwini Chand	2015	Amanda Rickard, Ying Wan
2008	Johanna Barclay, Ulla Simanainen, Kathryn Backholer	2016	Ada Cheung, Sally Abell
		2017	Moe Thurzar, Rebecca Goldstein

ESA KEN WYNNE MEMORIAL POSTDOCTORAL RESEARCH AWARD



2013 Lisa Moran
2014 Kristy Brown
2015 Jun Yang
2016 Kirsty Walters

ESA POSTDOCTORAL AWARD

2009	Jeremy Smith	2014	Lucia Gagliardi
2010	Sarah Spencer	2015	Justin Chen and Stella Liong
2012	Kelly Walton	2016	Ada Cheung and Jun Yang
2013	Radhika Seimon		

ESA RESEARCH HIGHER DEGREE SCHOLARSHIP

2007	Priya Sumithran	2014	Dilys Leung
2008	Lucia Gagliardi	2015	Cherie Au and Dilys Leung
2009	Pui Shi (Tammy) Pang	2016	Dilys Leung
2012	Tilenka Thynne		
2013	Carmela Caputo		

ESA HONORARY LIFE MEMBERS

Prof Leon Bach	Prof Richard D. Gordon	Prof Gail P. Risbridger
Dr Robert Baxter	Dr Ian B Hales	Prof Terry J. Robinson
Dr Alan W. Blackshaw	Prof David Handelsman	Prof Ray Rodgers
Dr Hal D. Breidahl	Dr Philip Harding	Prof Rodney Shearman
Prof James B Brown	Prof Basil Hetzel	Dr Evan Simpson
Prof Henry G Burger	Dr Brian Hirschfeld	Prof Alfred W Steinbeck
Dr Robin A. Burston	Prof Ken Ho	Prof Jim Stockigt
Prof Donald P Cameron	Bryan Hudson	Prof Roderick F.A. Strang
Prof Iain Clarke	Dr Ivan G Jarrett	Prof Pincus Taft
Prof John P Coghlan	Assoc Prof Stephen Judd	Dr Ian D. Thomas
Prof Alex Cohen	Prof Richard G Larkins	Prof Duncan J. Topliss
Dr Ron I Cox	Prof Leslie Lazarus	Prof Prof Victor Trikojus
Prof David Curnow	Dr Thomas B. Lynch	Emeritus Prof John R Turtle
Prof David De Kretser	Prof T John Martin	Prof Robert Vines
Dr Ewan Downie	Dr Len Martin	Dr Alan L. Wallace
Prof Creswell J Eastman AM	Dr Frank I.R. Martin	Prof Garry Warne
Cliff W. Emmens	Dr Ian C.A. Martin	Prof Norman Wettenhall
Dr Ken A. Ferguson	Prof Ian R. McDonald	Prof F.H. Hales Wilson
Prof Jock Findlay	Dr Roger A. Melick	Prof Marelyn Wintour-Coghlan
Prof Peter Fuller	Prof Solomon Posen	Dr Ken N. Wynne
Prof John W Funder	Prof Marilyn B. Renfree	Prof Jeffrey Zajac



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SRB OFFICE BEARERS 2017

President	Chris O'Neill	Newsletter Secretary	John Schjenken
Secretary	Mark Green	Fellows & Life Members and Plenary Lecture Secretary	Shaun Roman
Treasurer	Jeremy Smith	SRB Conference Secretary & RFD Liaison	Tu'uhevaha Kaitu'u-Lino
Membership	Josephine Bowles	SRB Conference & Plenary Lecture Secretary	Jemma Evans
Awards & Sponsorship	Patrick Western	SRB ASM POC co-chair	Kirsty Walters
Public Relations/Website	Hannah Brown	SRB ASM POC co-chair	Brett Nixon
Public Officer	Jeremy G. Thompson	SRB ASM LOC	Jeremy Smith
ECR Representatives	Lisa Akison		
	Michael Bertoldo		
Student Representatives	Harriet Fitzgerald		
	Sarah Delforce		

PAST SRB OFFICE BEARERS 1969 - 2017

YEAR	CHAIRPERSON	TREASURER	SECRETARY
1969-70	TJ Robinson	RG Wales	JR Goding
1970-71	TJ Robinson	RG Wales	JR Goding
1971-72	TJ Robinson	RG Wales	JR Goding
1972-73	TJ Robinson	IG White	BM Bindon
1973-74	CW Emmens	IG White	BM Bindon
1974-75	CW Emmens	IG White	BM Bindon
1975-76	CW Emmens	IG White	BM Bindon
1976-77	CW Emmens	GM Stone	IA Cumming
1977-78	DM de Kretser	GM Stone	IA Cumming
1978-79	DM de Kretser	GM Stone	IA Cumming
1979-80	DM de Kretser	GM Stone	IA Cumming
1980-81	DM de Kretser	GH McDowell	RJ Scaramuzzi
1981-82	NW Moore	BG Miller	RJ Scaramuzzi
1982-83	NW Moore	BG Miller	TK Roberts
1983-84	JK Findlay	BG Miller	TK Roberts
1984-85	JK Findlay	CD Nancarrow	JM Cummins
1985-86	BM Bindon	CD Nancarrow	JM Cummins
1986-87	BM Bindon	CD Nancarrow	G Evans
1987-88	BP Setchell	LA Hinds	G Evans
1988-89	BP Setchell	LA Hinds	JM Shelton
1989-90	JC Rodger	GB Martin	JM Shelton
1990-91	JC Rodger	GB Martin	PL Kaye
1991-92	RJ Scaramuzzi	CG Tsonis	PL Kaye
1992-93	RJ Scaramuzzi	CG Tsonis	LA Salamonsen
1993-94	AO Trounson	J Wilton	LA Salamonsen
1994-95	AO Trounson	J Wilton	MP Hedger
1995-96	RF Seamark	JD Curlewis	MP Hedger
1996-97	RF Seamark	JD Curlewis	JG Thompson
1997-98	MB Renfree	MB Harvey	JG Thompson
1998-99	MB Renfree	MB Harvey	JG Thompson
1999-00	MB Renfree	MB Harvey	T Lavranos
2000-01	JP Hearn	C O'Neill	T Lavranos
2001-02	JP Hearn	C O'Neill	RB Gilchrist
2002-03	JP Hearn	C O'Neill	RB Gilchrist
2003-04	LA Salamonsen	KL Loveland	RB Gilchrist
YEAR	PRESIDENT	TREASURER	SECRETARY
2004-05	LA Salamonsen	KL Loveland	C Gargett
2005-06	LA Salamonsen	KL Loveland	C Gargett
2006-07	M Holland	SA Robertson	C Gargett

YEAR	PRESIDENT	TREASURER	SECRETARY
2007-08	M Holland	SA Robertson	C Grupen
2008-09	M Holland	SA Robertson	C Grupen
2009-10	MP Hedger	R Nicholson	C Grupen
2010-11	MP Hedger	R Nicholson	JE Girling
2011-12	MP Hedger	R Nicholson	JE Girling
2012-13	EA McLaughlin	JG Thompson	JE Girling
2013-14	EA McLaughlin	JG Thompson	KG Pringle
2014-15	EA McLaughlin	JG Thompson	KG Pringle
2015-16	C O'Neill	J Smith	KG Pringle
2016-17	C O'Neill	J Smith	MP Green

SPONSORS, AWARDS AND LECTURERS OF THE SOCIETY FOR REPRODUCTIVE BIOLOGY

SRB GODING / FOUNDERS' LECTURER

1974	IA Cumming	1996	No Lecture
1975	W Hansel	1997	F Bronson
1976	DT Baird	1998	DM de Kretser
1977	TD Glover	1999	I Wilmut
1978	CH Tyndale-Biscoe	2000	R Short
1979	GMH Thwaites	2001	D Albertini
1980	KP McNatty	2002	AO Trounson
1981	BK Follett	2003	T Fleming
1982	J Wilson	2004	RJ Aitken
1983	BM Bindon	2005	J Eppig
1984	A Bellvé	2006	M Renfree
1985	BP Setchell	2007	M Matzuk
1986	W Hansel	2008	J Robinson
1987	HG Burger	2009	LA Salamonsen
1988	FW Bazer	2010	RA Reijo-Pera
1989	GD Thorburn	2011	C O'Neill
1990	RM Moor	2012	J Carroll
1991	CR Austin	2013	S Robertson
1992	JK Findlay	2014	R Norman
1993	GC Liggins	2015	B Capel
1994	I Huhtaniemi	2016	J Thompson
1995	RF Seamark	2017	T Woodruff

MEAT AND LIVESTOCK LECTURER/RFD AWARD LECTURER/SRB PRESIDENT'S LECTURER

2006	WW Thatcher	2012	K Jones
2007	I Clarke	2013	S Fisher
2008	H Fraser	2014	G Schatten
2009	F Gandolfi	2015	M O'Bryan
2010	D Handelsman	2016	J Penninger
2011	R Rodgers	2017	V Harley

SRB JSA /DAVID HEALY NEW INVESTIGATOR AWARD

1981	PJ Lutjen	1992	SW Walkden-Brown
1982	RJ Rodgers & CB Gow	1993	CM Markey
1983	SP Flaherty	1994	MJ Hötzel, S McDougall
1984	C O'Neill	1995	I van Wezel
1985	BJ Waddell	1996	S Robinson
1986	LJ Wilton	1997	MJ Jasper
1987	A Stojanoff	1998	M Panteleon
1988	MB Harvey	1999	E Whiteside
1989	AH Torney	2000	CE Gargett
1990	H Massa	2001	WV Ingman
1991	DK Gardner	2002	J Smith

2003	AN Sferruzzi-Perri	2010	P Nichols
2004	K Webster	2011	A Reid
2005	T Hickey	2012	Y R Gao
2006	K Walters	2013	A Winship
2007	C Hogarth	2014	J Sutherland
2008	G Wilson	2015	E Green
2009	AS Care	2016	J Dunleavy

SRB ROBINSON RESEARCH INSTITUTE AWARD FOR RESEARCH EXCELLENCE

2006	M O'Bryan	2012	B Nixon
2007	E McLaughlin	2013	J St. John
2008	SA Robertson	2014	R Robker
2009	RB Gilchrist	2015	M Baker
2010	E Dimitriadis	2016	W Ingman
2011	C Gargett	2017	MP Green

SRB NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD

2011	J Smith, S Tong
2012	K Hutt
2013	T Kaitu'u-Lino
2014	D Jamsai
2015	K Walters
2016	P Tanwar

SRB MLA NEW SCIENTIST AWARD (DISCONTINUED 2016)

2004	T Hussien	2009	M Bertoldo
2005	M Herrid	2011	L Malaver-Ortega
2006	P Hawken, Z Zhang	2013	D Bartolini
2007	KH Beilby	2014	M Sutton-McDowell
2008	T Flatscher-Bader	2015	T Leahy

CENTRE FOR REPRODUCTION AND GENOMICS STUDENT POSTER AWARD (DISCONTINUED 2012)

2008	A Zhou
2009	I Tan
2010	YM Soh
2011	Y Nakaya

CENTRE FOR REPRODUCTION AND GENOMICS ECR POSTER AWARD (DISCONTINUED 2012)

2008	E Menkhorst
2009	P Paiva
2010	YX Chen
2011	C Itman

HUDSON INSTITUTE OF MEDICAL RESEARCH CENTRE FOR REPRODUCTIVE HEALTH "AWARD FOR EXCELLENCE" FOR BEST ECR POSTER

2012	SY Chai
2013	K Palmer
2014	J Stringer
2015	N Nicolas
2016	A Winship

HUDSON INSTITUTE OF MEDICAL RESEARCH CENTRE FOR REPRODUCTIVE HEALTH "AWARD FOR EXCELLENCE" FOR BEST MCR POSTER

2012	T Kaitu'u-Lino
2013	SH Liew
2014	E Menkhorst
2015	Z Gibb, L Wu
2016	K Redgrove

THE OOZOA STUDENT AWARD

2008	M Dun
2009	H Bakos
2010	A Sobinoff
2011	L Frank
2012	G Kerr
2013	T Lord
2014	J Olcron
2015	D Listijono
2016	L Prokopuk

AUSTRALIAN AND NEW ZEALAND PLACENTA RESEARCH ASSOCIATION (ANZPRA) NEW INVESTIGATOR AWARD

2010	C Viall
2011	G Kafer
2012	K Palmer
2013	F Brownfoot
2014	S Heng
2015	R Crew
2016	J Kalisch-Smith

RFD-SRB PUBLICATION OF THE YEAR AWARD

2014	SJ Holdsworth-Carson et al. (J Girling)
2015	SL Wong et al. (ML McDowall)
2016	J Haverfield et al. (SJ Meacham)

SRB TJ ROBINSON AWARD (4 YEAR)

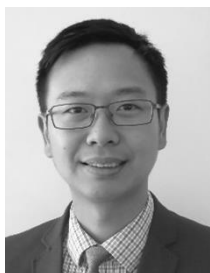
2002	CG Grupen
2006	KM Morton
2010	T Leahy
2016	T Keeley

SRB VISITING LECTURER AWARD

2014	D Russell
2015	P Western
2016	K Walters (May), J Girling (November)
2017	C Grupen (May),

SRB ECR COLLABORATIVE RESEARCH TRAVEL AWARD

2012	K Pringle & J McGuane
2013	L Wu & WS Yuen, K Webster & K Diener
2014	D Ireland & E Menkhorst, B Menzies & J Schjenken
2015	H Brown & S Buckberry, L Akison & J Liew
2016	S Reegan & S Mukherjee, M Pankhurst & R Kelley

ESA SERVIER AWARD WINNER**Jimmy Shen***Monash Health and Hudson Institute of Medical Research*

Dr. Jimmy Shen is a consultant endocrinologist at Monash Health and Peninsula Health in Victoria. He completed his advanced training in Diabetes and Endocrinology at Flinders Medical Centre (SA) and Monash Health (VIC). He subsequently obtained his PhD in the field of the Mineralocorticoid Receptor and Cardiovascular Endocrinology through the Hudson Institute and Monash University. He is currently a research associate at the Hudson Institute and a member of the endocrine hypertension team at Monash Health with a specific research focus and care of patients with primary aldosteronism.

**ESA MID-CAREER AWARD WINNER****Frances Milat***Hudson Institute of Medical Research*

Clinical Associate Professor Frances Milat is an Endocrinologist, Head of the Metabolic Bone Services at Monash Health and Head of the Metabolic Bone Research Group at the Hudson Institute. She graduated from Medicine at Monash University in 1996 and completed endocrine training at Monash Health and St Vincent's Hospital in Sydney. She pursued her research interest in metabolic bone disorders, obtaining an MD examining mechanisms of PTH and Wnt pathway action in bone at St Vincent's Institute (University of Melbourne). Fran is committed to improving patient care through clinical research, with interests in metabolic bone disorders associated with transfusion-dependent haemoglobinopathies, chronic neurological diseases, pregnancy, renal disease and other medical conditions. She is involved in the supervision of research students as well as medical student and postgraduate teaching. She is the current Co-chair of the ESA Annual Scientific Meeting Program Organising Committee (2016-18).

ESA KEN WYNNE MEMORIAL POSTDOCTORAL RESEARCH AWARD**Kirsty Walters***University of New South Wales*

Dr Kirsty Walters was awarded her PhD in 2005 from the University of Edinburgh, Scotland for her work on the role of the insulin-like growth factor (IGF) system in ovarian follicular development. Subsequently she was recruited to the ANZAC Research Institute, Sydney, where her research focused on the role of androgens in female reproduction and polycystic ovary syndrome (PCOS). Dr Walters has recently joined the University of New South Wales, Sydney, where she is lab head of the Ovarian Biology group.

ESA SENIOR PLENARY AWARD WINNER**Patrick M Sexton***Monash Institute of Pharmaceutical Sciences, Monash University*

Professor Sexton is Head of the Drug Discovery Biology Theme, a NHMRC Principal Research Fellow, and Professor of Pharmacology at the Monash Institute of Pharmaceutical Sciences within Monash University. He is an internationally recognised leader in the study of G protein-coupled receptors (GPCRs), biased agonism, on allosteric interactions between GPCRs and other proteins, and GPCR small molecule ligands. He has particular expertise in the study of GPCR structure-function, biased agonism and the structure-function of Class B GPCRs. He is a current Thompson Reuters Highly Cited Researcher (Pharmacology and Toxicology). He has authored over 260 publications: including 186 original research and over 50 reviews, 20 book chapters; 2 patents. Prof. Sexton is an adjunct Professor in the Faculty of Pharmacy of Fudan University in Shanghai, a member of the Scientific Advisory Board for the Chinese National Centre for Drug Screening, an elected Fellow of the British Pharmacological Society (BPS) and Chair of the International Advisory Group of the BPS. He is also a corresponding member of the International Union of Basic and Clinical Pharmacology Committee on Receptor Nomenclature and Drug Classification, a member of the Faculty of 1000 (Molecular Pharmacology division), and Associate Editor for Pharmacological Reviews.

SRB THE ROBINSON RESEARCH INSTITUTE AWARD FOR EXCELLENCE IN REPRODUCTIVE BIOLOGY RESEARCH



Mark Green

The University of Melbourne

Dr Mark Green is the Merck Serono Senior Lecturer in Reproductive Biology and a group leader at the University of Melbourne. Mark obtained his PhD studying factors that affect early embryo development at the University of Nottingham UK, before undertaking a Life Sciences Postdoctoral Fellowship with Prof Mike Roberts at the University of Missouri USA. In 2004 he became the inaugural Maurice Paykel Fellow and relocated to The Liggins Institute, University of Auckland NZ. He subsequently held a joint appointment as the first Fertility Associates Research Fellow at The Liggins Institute, University of Auckland and as a Senior Scientist at AgResearch Ltd NZ. His research centres on improving outcomes of human and animal ART by identifying how endocrine and environmental factors impact gametes and early embryo development, as well as subsequent offspring health. He undertakes this research in a variety of species, including humans, ruminants, rodents and invertebrates



NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD FINALISTS



Michael J Bertoldo

University of NSW

After completing his PhD in 2010 at the University of Sydney on oocyte developmental competence in pigs, Dr Bertoldo moved to France to work at the French National Institute of Agricultural Research (INRA). Here he established an ovarian tissue culture system to better understand primordial follicle activation and preantral follicle development. This work showed the JNK and BMP signalling pathways to be interesting targets for manipulation to improve culture conditions of ovarian tissue for fertility preservation. During his second postdoctoral tenure in France he worked on genetic knockout mouse models to assess the role of AMP-activated protein kinase (AMPK) during gametogenesis. He found that AMPK has some previously unobserved roles during sperm and oocyte maturation and that deletion of AMPK in both males and females causes subfertility. These results could provide a mechanism by which metabolic disturbances reduce fertility in mammals. Now a Senior Postdoctoral Research Fellow at the School of Women's & Children's Health, UNSW, Dr Bertoldo is developing novel fertility preservation technologies for cancer survivors and investigating means to enhance oocyte developmental competence by manipulating NAD⁺ metabolism.



Zamira Gibb

University of Newcastle

Dr Zamira Gibb graduated with PhD in Veterinary Science from the University of Sydney in 2013 before commencing her postdoctoral career at the University of Newcastle under Laureate Professor John Aitken. Zamira has been the recipient of the International Society of Equine Reproduction's Michelle LeBlanc Young Presenter Award and the SRB Hudson Institute of Medical Research Mid-Career Researcher Award, and has delivered over 20 invited presentations including the keynote plenary lecture at the 2016 International Symposium on Stallion Reproduction in Illinois. As the leader of the equine fertility research group in UoN's PRC in Reproductive Science, Zamira has attracted over \$2.4 million in funding, including two ARC Linkage Grants, has supervised two PhD students to completion and currently supervises five PhD and two Honours students. By translating research into practical commercial applications, Zamira provides a conduit between producers and researchers to provide solutions to real industry problems.



Kelly L Walton

Monash University

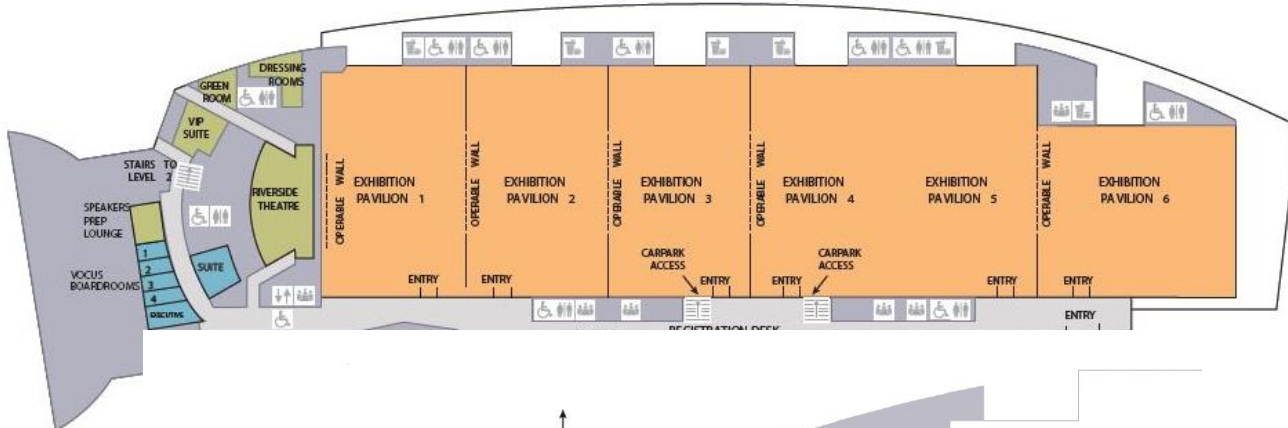
Dr Kelly Walton co-runs the Growth Factor Therapeutics Laboratory in the Department of Physiology at Monash University. Her research focus is the large family of Transforming Growth Factor β (TGF- β) proteins, and their roles in the pathogenesis of reproductive and musculoskeletal disorders. Dr Walton is internationally recognised for her ability to manipulate TGF- β proteins for functional characterisation and for the development of novel TGF- β biologics. Much of her research focuses on a subclass of the TGF- β family, the inhibins and activins, which together coordinate the hypothalamic-pituitary-gonadal axis. Her initial studies defined how inhibins and activins are assembled, enabling the subsequent development of specific anti-activin therapeutics and inhibin mimetics. Significantly, Dr Walton's team has proven that localised anti-activin therapy can promote substantial muscle growth. Her current program seeks to understand the physiological consequences of inhibin loss at menopause, and the benefits of inhibin therapy on musculoskeletal health.

DELEGATE INFORMATION

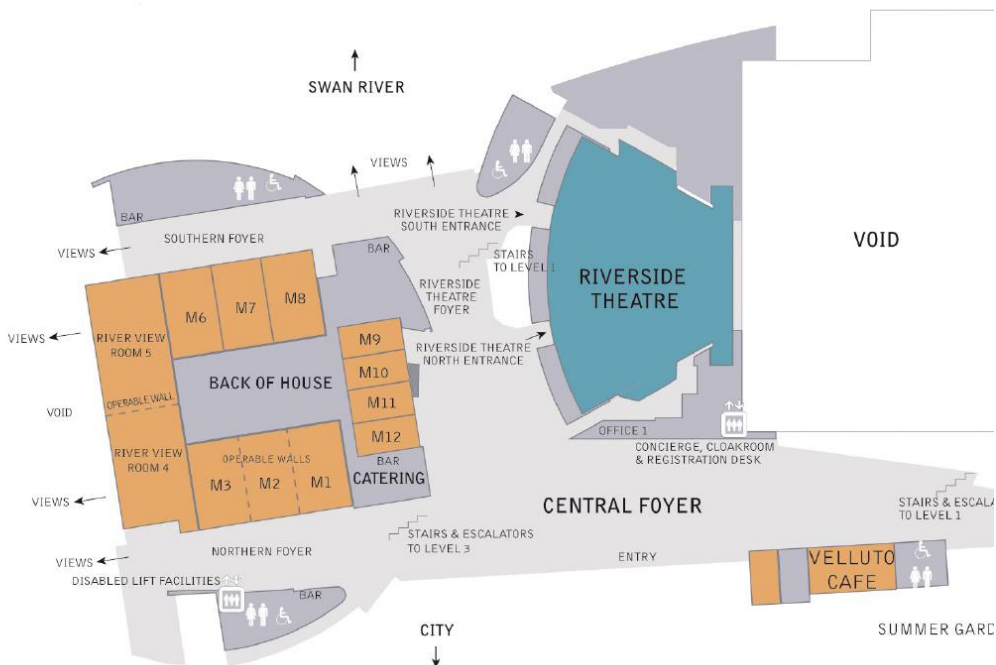
VENUE

Perth Convention and Exhibition Centre
 21 Mount Bays Road
 Perth, WA 6000
 Phone: (07) 5504 4000

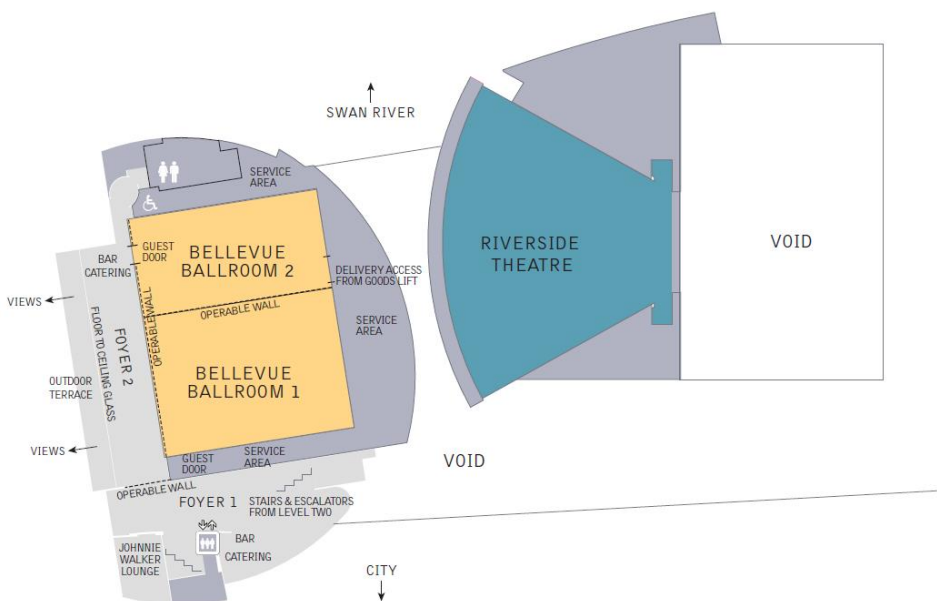
Level One



Level Two



Level Three



THE REGISTRATION DESK

The registration desk is located on the ground floor (Level 2) as you enter the Convention Centre. Any enquiries can be directed to ASN staff there other than those about accommodation which should be dealt directly with your hotel.

The registration desk office hours are:

Sunday 27 th August	3:00 PM – 6:30 PM
Monday 28 th August	6:30 AM – 5:00 PM
Tuesday 29 th August	6:30 AM – 5:30 PM
Wednesday 30 th August	6:30 AM – 2:00 PM

THE SPEAKER PREPARATION ROOM

Presentations are to be loaded direct to the PC in the speaker preparation room (Vocus Suite) on Level 1 at least a full session in advance of your session. You should bring your talk on a USB, saved in a format for display on a pc within the room. A technician will be on hand to assist with any transfer / loading issues and to help you check your presentation. There are both PCs and Macintosh computers in the speaker preparation room but please note there are no Macintosh computers in the presentation rooms.

INCLUDED IN YOUR REGISTRATION

Conference delegates receive the following services as part of their registration:

- Access to the sessions of your choice
- Conference satchel complete with conference book
- Use of the Conference App
- Morning and/or afternoon tea for the days of nominated attendance
- Lunches on the days of nominated attendance
- Welcome Function (Sunday 27st August)

NAME TAGS

Delegates are required to wear their name tags to all scientific and catered sessions. Uniformed security is in attendance on the doors of the exhibition area and name tags are required to gain access. Delegates should note that within their name tag pouch will be the specific function tickets they have purchased.

POSTER VIEWING

Delegates with posters can find the correct position for their poster by locating the appropriate abstract number on the display panels. The panels are set up in the Exhibition (Pavilion 1) on Level 1. Use the program reference (or ESA-SRB smart phone App) to identify your abstract number and poster position. Presenters should stand next to their poster during allocated poster sessions. All Posters can be mounted on Sunday afternoon and must be removed by afternoon tea on Tuesday

ESA & SRB POSTER SESSIONS

The official ESA-SRB Poster session is running from 5.00pm – 7.00pm on Monday 28th August within Exhibition Pavilion 1. There will also be Lightning Talks within the Exhibition during the lunchtime session on Monday 28th August which will highlight the finalists of the SRB ECR and MCR Poster abstract submissions.

The ESA-SRB Poster session is sponsored by  **IPSEN**
Innovation for patient care

SOCIAL FUNCTIONS

Welcome Function – Sunday 27th August


Held in the Exhibition Area from 6:30 PM – 8:00 PM, the Welcome Function is a fantastic opportunity for delegates to catch up with old friends from past conferences. This is also a great networking opportunity for students, young investigators and the trade. **Additional tickets for partners can be purchased from the registration desk.*

ESA-SRB Joint Poster Viewing – Monday 28th August

The Poster viewing session is held in the Exhibition Area from 5:00 PM – 7:00 PM and is a great opportunity for delegates to present their findings to their colleagues & peers. Drinks and nibbles provided.

‘Meeting of the Minds’ Networking Dinner – Monday 28th August

Join us from 7:30 PM – 10:30 PM at Bob’s Bar, Print Hall for the ‘Meeting of the Minds’ Networking Dinner. It is for students and scholars alike and is a fantastic opportunity for students to pick the brains of their peers and professors. Bob’s Honky Tonk inspired delicacies & drinks are included. Drinks and substantial canapés included. **This is a ticketed function (\$35 for students, \$55 for others) and tickets can be purchased in advance from the registration desk.*

The ‘Meeting of the Minds’ Networking Dinner is sponsored by  **NOVARTIS**

ESA-SRB Conference Dinner – Tuesday 29th August

The ESA-SRB Conference Dinner is without a doubt the social highlight of the conference. Held in the BelleVue Ballroom 2 from 7:30 PM onwards, with a live band, 3 course meal and drinks included this is an event not to miss. So, dress up, bring your best dance moves and groove your way into the wee hours of the morning.

**This is a ticketed function (\$110 per ticket) and they can be purchased in advance from the registration desk.*

OCCASIONAL MEETINGS

A number of special meetings and functions have been called by various interested parties throughout the conference. Those involved and uncertain of which room they should be in will be able to obtain guidance from the registration desk, ESA-SRB smart phone APP or the pocket timetable.

MESSAGE BOARD

Available at the registration desk.

SMOKING

Smoking is not permitted in the venue.

MOBILE PHONES

Please ensure your mobile phone is turned off or to silent during any session you attend.

INSURANCE

The hosts and organisers are not responsible for personal accidents, any travel costs, or the loss of private property and will not be liable for any claims. Delegates requiring insurance should make their own arrangements.

DISCLAIMER

The hosts, organisers and participating societies are not responsible for, or represented by, the opinions expressed by participants in either the sessions or their written abstracts.

WI-FI INTERNET

1. Connect to the PCEC_Wireless network
2. Open an Internet Browser, which will get redirected to the PCEC Portal Page
3. Accept the terms and conditions by ticking the box under the Select Plan button
4. Click on the Select Plan button and you will be redirected to a page where you can select the free 180 minutes.

CONFERENCE APP

The App is displayed in a simple and easy to read format on your phone or tablet. To download the App search for ESA-SRB from the following:

Android Products: www.play.google.com/store/apps

Apple Products: www.itunes.apple.com/au/

You will be prompted to add an icon onto your device home screen. The Smartphone/Mobile Device 'App' will allow you to:

View the full conference program


View all abstracts for the conference

Save your favourite sessions and plan your day

Take notes which will then be saved and downloaded from your registration profile.

Answer poll questions from presenters

To use most of these functions, you will be prompted to 'log in' each day. Simply enter the same email & password which you used to register.

The conference app is sponsored by  Endocrine Care

EXHIBITION SCANNERS

Some exhibitors at this year's meeting will have scanners that can be used on the barcode on your name badge to collect your contact information. In essence, this is like providing them with an electronic business card with exactly the same information as would be contained on a standard business card – ie. name, phone, email, organisation, position. No information beyond this is collected by the scanner. If you agree to have your badge scanned you are consenting to sharing your contact information with them. The exhibitors may use your details to contact delegates but are not permitted to share their information with third parties without the consent of the participant.

FIND OUT ABOUT THE FIRST AND ONLY LICENSED

GROWTH
HORMONE RECEPTOR
ANTAGONIST
TO TREAT
UNCONTROLLED
ACROMEGALY^{1,2}


SOMAVERT[®]
(pegvisomant, rbe) Powder for Injection with Diluent

VISIT PFIZER STAND D3

PBS Information: This product is not listed on the PBS.

BEFORE PRESCRIBING, PLEASE REVIEW PRODUCT INFORMATION AVAILABLE FROM PFIZER AUSTRALIA PTY LTD.

Minimum Product Information: SOMAVERT[®] pegvisomant (rbe) 10 mg, 15 mg, 20 mg powder for injection with diluent. **Indications:** Treatment of acromegaly in patients with inadequate response to surgery and/or radiation and/or other medical therapies or for whom these therapies are not appropriate. Treatment goal is to normalise IGF-I levels. **Contraindications:** Hypersensitivity to pegvisomant or any of the excipients. **Precautions:** Tumour growth; glucose metabolism; growth hormone deficiency; liver function tests; pregnancy Category B3; breastfeeding, elderly patients. Safety and efficacy not established in paediatric patients and in patients with renal or hepatic insufficiency. See PI for details. **Interactions with Other Medicines:** Insulin, oral hypoglycaemics, opioids. **Adverse Effects:** Pain, injection site reaction, peripheral oedema, chest pain, diarrhoea, nausea, influenza, infection, sinusitis, injury, abnormal liver function tests, back pain, dizziness, paresthesia, hypertension, development of anti-GH antibodies, injection site hypertrophy, systemic hypersensitivity reactions. See PI for details. **Dosage and Administration:** Obtain serum IGF-I levels before starting therapy. Administer loading dose of 80 mg subcutaneously under medical supervision. Thereafter, the patient should begin daily subcutaneous injections of 10 mg. Obtain serum IGF-I levels every 4-6 weeks and adjust dose in 5 mg/day increments. Maximum daily maintenance dose is 30 mg. Adjust dose for diabetic patients, elderly, heavier patients and patients on opioids. Rotate injection site. See PI for details. V20112.

References: 1. SOMAVERT Product Information. 2. ARTG website www.tga.gov.au Search term: "Somavert". Accessed 5 June 2017

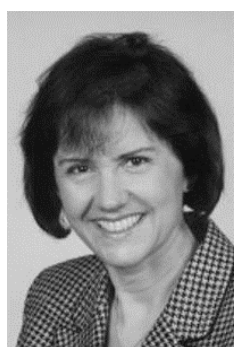
[®]Registered trademark. Pfizer Australia. ABN 50 008 422 348. 38-42 Wharf Road, West Ryde, NSW 2114. www.pfizer.com.au. Pfizer Medical Information: 1800 675 229. PP-SOM-AUS-0013 June 2017 PSC0522.

ESA PLENARY LECTURERS**Professor Gerard Conway***University College Hospital*

Professor Gerard Conway is a Reproductive Endocrinologist with clinics at University College London Hospitals with an academic base in the Institute for Women's Health, University College London. His research interests include the genetic origins of and the long-term medical and psychosocial outcomes for disorders of reproductive development. Gerard is president elect of the Endocrinology and Diabetes Section of the Royal Society of Medicine and is a member of European Working Groups for Premature Ovarian Insufficiency and for Polycystic Ovary Syndrome. For the Endocrine Society he is a guideline committee member for Congenital Adrenal Hyperplasia and he represents the British Endocrine Society on the International Guidelines for the Management of Turner Syndrome which is due of release this year.

**Dr Carla Greenbaum***Benaroya Research Institute*

Dr Greenbaum is Director of the Diabetes Program at Benaroya Research Institute (BRI) in Seattle. BRI is a non-profit research center focused on translational and clinical studies of type 1 diabetes (T1D) and other immune mediated diseases. Dr Greenbaum is a clinical investigator who works to alter the course of T1D through understanding the causes of disease, and testing interventions to alter immune mediated beta cell dysfunction. After medical school at Brown University, she completed her endocrinology fellowship at the University of Washington. Dr Greenbaum's expertise includes clinical trial design and implementation as well as discovery and evaluation of biomarkers for disease course and response to therapy. Dr Greenbaum serves as Chair of Type 1 Diabetes TrialNet, an NIH sponsored international consortium to test disease modifying therapies in T1D. Dr Greenbaum serves on various national and international scientific review committees and has had the privilege of working with many outstanding Australian investigators aiming to understand and cure T1D including John Wentworth and Peter Colman, Australian TrialNet PIs. She is on BRI's Institutional Review Board and Board of Directors.

**Professor Márta Korbonits***Queen Mary University of London*

Márta Korbonits, MD, PhD, DSc, FRCP is Professor of Endocrinology and Metabolism and Centre Lead for Endocrinology at Barts and the London School of Medicine and Dentistry, Queen Mary University of London. She was a Medical Research Council Clinician Scientist Fellow working on ghrelin and the hormonal regulation of the metabolic enzyme AMP-activated protein kinase. Her current interests include endocrine tumorigenesis, especially the genetic origin of pituitary adenomas and other endocrine tumour syndromes. She works on both the clinical characterisation as well as molecular aspects of these diseases and leads a large international consortium to study these rare conditions. She shares her time between clinical patient care, clinical research and laboratory based research as well as teaching at undergraduate and postgraduate level. She trained 23 PhD students. She was a recipient of the Society for Endocrinology Medal and the Endocrine Society Delbert Fischer award, published over 200 original papers and has an H-index of 49 on Scopus. She was member of the executive board of the Society for Endocrinology, Pituitary Society, European Neuroendocrine Association and the European Society of Clinical Investigation and currently is the Head of the Science Committee of the European Society of Endocrinology. As an Associate Editor for the new Journal of the Endocrine Society she is responsible for the pituitary field. She is the endocrine editor of Scientific Reports and Annals of Human Genetics and serves on the editorial board of the Journal of Clinical Endocrinology and Metabolism and Pituitary.

SRB PLENARY LECTURERS



Professor Vincent Harley

Hudson Institute of Medical Research

Professor Vincent Harley is the head of the Molecular Genetics and Development laboratory at the Hudson Institute of Medical Research, Melbourne and a Professor in the Anatomy and Biochemistry Departments of Monash University. His research interest is in the genetics of sexual differentiation. Specifically, intersex conditions, gender identity, and sex bias in neurological conditions such as Parkinson's and ADHD. Professor Harley is the President of the Lorne Genome Inc and the Director of the Human Variome Project Australia. He shares a NHMRC Program grant, "Disorders of Sex Development; genomic and diagnosis to inform clinical care". Professor Harley is a strong advocate for improved clinical management of intersex patients and has been an invited member on international panels such as LWPES/EPES (US and European) taskforce on intersex and IOC-convened panel on Gender and Sport.



Dr Teresa K Woodruff

Northwestern University, USA

Teresa K. Woodruff Ph.D. is the Thomas J. Watkins Professor of Obstetrics & Gynecology, the Vice Chair of Research (OB/GYN), the Chief of the Division of Reproductive Science in Medicine, Feinberg School of Medicine, and Professor of Molecular Biosciences at the Weinberg College of Arts and Sciences at Northwestern University. She is also the Director of the Center for Reproductive Science, Founder and Director of the Women's Health Research Institute and Director of the Oncofertility Consortium. She is an internationally recognized expert in ovarian biology and, in 2006, coined the term "oncofertility" to describe the merging of two fields: oncology and fertility. She now heads the Oncofertility Consortium, an interdisciplinary team of biomedical and social scientist experts from across the country. She has been active in education not only at the professional level but also with high school students. To this end, she founded and directs the Oncofertility Saturday Academy (OSA), one of several high school outreach programs that engages girls in basic and medical sciences. She was awarded the Presidential Award for Excellence in Science Mentoring in an oval office ceremony from President Obama (2011). Widely recognized for her work, Woodruff holds 10 U.S. Patents, and in 2013 she was named to Time magazine's 'Most Influential Persons' list. Some of her recent awards and honors include a Guggenheim Fellowship (2017), the Society for Endocrinology Transatlantic Medal (2017), and a Leadership Award from the Endocrine Society (2017). She has two honorary degrees including one from the University of Birmingham, College of Medical, UK (2016). She is civically active and is an elected member of The Economic Club of Chicago and an elected Fellow of the American Association for the Advancement of Science. Woodruff served on the school board of the Chicago-based Young Women's Leadership Charter School, served as president of the Endocrine Society and championed the new NIH policy that mandates the use of females in fundamental research. and Mineral Research and Advances in Mineral Metabolism. He has served on Editorial Boards of journals, CIHR and NIH grant committees, and as a reviewer for grant agencies in Canada, USA, England, Ireland, and Australia. He was also on the Institute of Medicine / National Academies of Science USA Committee to Review Calcium and Vitamin D. He is the president of Advances in Mineral Metabolism for 2015-2017.

ESA-SRB SYMPOSIA SPEAKERS

Assoc Prof Carolyn Allan

Monash University

Dr Tina Bianco-Miotto

University of Adelaide

A/Prof Jacqueline Boyle

Monash University

Dr Hannah Brown

University of Adelaide

Dr Rebecca Campbell

Otago University

Prof Ian Caterson (*Speaker supported by Novo Nordisk*)

University of Sydney

Prof Karen Chapman

University of Edinburgh

Dr Cherie Chiang

Royal Melbourne Hospital

Assoc Prof Roderick Clifton-Bligh

University of Sydney

Dr Penny Coates

South Australia Pathology

Prof Michael Davies

University of Adelaide

Prof Susan Davis

Monash University

Prof Eva Dimitriadis

Hudson Institute of Medical Research

Dr Brian Drew

Baker Heart and Diabetes Institute

Assoc Prof Jonathan Evans

University of Western Australia

Prof Daniel Galvão

University of New South Wales

Assoc Prof Robert Gilchrist

University of New South Wales

Prof Jerry Greenfield

St Vincent's Hospital Sydney

Prof Mathis Grossmann

University of Melbourne

Prof Jenny Gunton

University of Sydney

Dr Belinda Henry

Monash University

Assoc Prof Kyle Hoehn

University of New South Wales

Prof Ken Ho

Princess Alexandra Hospital

Dr Christine Houlihan

The Mercy and The Austin

Assoc Prof Warrick Inder

Princess Alexandra Hospital

Dr Christine Jasoni

Otago University

Prof Jeffrey Keelan

University of Western Australia

Dr Lisa Lee

University of Melbourne

Prof Peter Leedman

University of Western Australia

Dr Ee Mun Lim

University of Western Australia

Dr Sarina Lim

Concord Hospital

Assoc Prof Louise Maple-Brown

Royal Darwin Hospital

Prof Graeme Martin

University of Western Australia

Assoc Prof Sean McGee

Deakin University

Prof Margaret Morris

University of New South Wales

Prof George Muscat

University of Queensland

Prof John Newnham

University of Western Australia

Dr Michele O'Connell

Royal Children's Hospital

Prof Chris O'Neill

University of Sydney

Assoc Prof Andrew Pask

University of Melbourne

Dr Jonathan Paul

University of Newcastle

Prof Marilyn Renfree

University of Melbourne

Professor Gail Risbridger

Monash University

Assoc Prof Rebecca Robker

University of Adelaide

Prof Andrew Sinclair

Murdoch Children's Institute

Dr Jeremy Smith

University of Western Australia

Prof Justin St John

Hudson Institute of Medical Research

Dr Agnes Stefansdottir

University of Edinburgh

Prof Bronwyn Stuckey

University of Western Australia

Prof Matthew Watt

Monash University

Prof Mary Wlodek

University of Melbourne

Dr Caitlin Wyrwoll

University of Western Australia

Dr Lindsay Wu

University of New South Wales

assistBEYOND Flexible, comprehensive support

The Somatuline® Autogel® (lanreotide) Support Program



*In selected areas.

For more information about assistBEYOND or to register call 1800 277 774 or visit www.assistBEYOND.com.au

PBS Information: Authority required (STREAMLINED for Public Hospitals only). This product is a Highly Specialised Drug listed on the PBS as a Section 100 item. Refer to PBS schedule for full authority information. GEP-NETs indication is not currently PBS listed.

Before prescribing please refer to full Product Information which is available from Ipsen Medical Information (03) 8544 8100 or from <http://www.guildlink.com.au/gc/ws/ipsen/pi.cfm?product=ispstatgi20715>

Somatuline® Autogel®: Lanreotide as acetate in a pre-filled syringe (60, 90 and 120 mg) fitted with an automatic safety system. **Indications:** Treatment of acromegaly when circulating growth hormone and IGF-1 levels remain abnormal after surgery and/or radiotherapy or in patients who have failed dopamine agonist therapy; the treatment of symptoms of carcinoid syndrome associated with carcinoid tumours; the treatment of gastroenteropancreatic neuroendocrine tumours (GEP-NETs) in adult patients with unresectable locally advanced or metastatic disease. **Contraindications:** Lactation; hypersensitivity to lanreotide or related peptides or other excipients. **Precautions:** May experience hypoglycaemia or hyperglycaemia (monitor blood glucose levels); slight decrease in thyroid function; may reduce gall bladder motility (recommend gall bladder echography); monitor kidney and liver function; may reduce heart rate in patients without an underlying cardiac problem (monitor heart rate; caution with treatment initiation in patients with bradycardia). Not recommended for use in children. See full PI for further information. **Interactions with Other Medicines:** Reduced absorption of cyclosporin A, decreased bioavailability of cyclosporine, increased availability of bromocriptine, additive bradycardia effects with beta-blockers, decreased clearance of quinidine, terfenadine. **Effect on driving/using machinery:** If affected by dizziness do not drive or use machinery. **Adverse Effects:** Very common: diarrhoea or loose stools, abdominal pain, cholelithiasis; Common: hypoglycaemia, hyperglycaemia, diabetes mellitus aggravated, fatigue, lethargy, asthenia, dizziness, headache, sinus bradycardia, alopecia, hypotrichosis, nausea, vomiting, dyspepsia, flatulence, abdominal distension, abdominal discomfort, constipation, biliary dilatation, steatorrhoea, injection site reactions (pain, mass, induration, nodule, pruritis), laboratory investigation changes, weight decreased, decreased appetite, musculo-skeletal pain, myalgia. See full PI for further information. **Dose: Acromegaly:** For first time treatment the starting dose is 60 mg every 28 days; for patients previously treated with Somatuline LA every 14, 10 or 7 days, the starting dose is 60 mg, 90 mg or 120 mg respectively every 28 days. Dosage should be adjusted according to GH and/or IGF-1 response. Patients well controlled on lanreotide can be treated with 120 mg every 42–56 days. **Carcinoid Syndrome:** 60 to 120 mg every 28 days, adjusted according to symptomatic relief. **GEP-NETs:** 120 mg every 28 days; treatment should be continued for as long as needed for tumour control. **Administration:** For treatment of acromegaly or carcinoid syndrome, deep subcutaneous injection in the superior external quadrant of the buttock (healthcare professional or carer); or the upper, outer thigh (self-administration). **Decision for injection by patient or carer to be made by a healthcare professional. Patients must be controlled on Somatuline Autogel and patients/carers must be motivated, competent and trained to inject.** For GEP-NETs treatment, Somatuline Autogel is administered by a healthcare professional. **Storage:** 2°C–8°C. **Date of most recent amendment: 27 July 2015.** Date of preparation: June 2017. IPSA0631.

assistBEYOND: The Somatuline Autogel Support Program is an initiative of Ipsen Pty Ltd, For further information, contact Ipsen Pty Ltd. ABN 47 095 036 909 T (03) 8544 8100 F (03) 9562 5152 E info@ipsen.com.au Level 2, Building 4, Brandon Office Park, 540 Springvale Road, Glen Waverley, VIC 3150 Australia Ipsen Pty Ltd.

SUNDAY 27TH AUGUST 2017

ESA Council Meeting

2:00PM - 4:30PM

Meeting Room 12

SRB Council Meeting

2:30PM - 4:00PM

Meeting Room 11

SRB Public Forum - Birth, Babies and Beyond

4:30PM - 6:30PM

Meeting Room 1 & 2

Chair: Sarah Robertson

The conference acknowledges the support of



4:30 PM

John P Newnham

Preventing preterm birth in Western Australia *abs# 1*

5:00 PM

Michael Davies

Fertility in the fast lane- 21st technologies and reproductive outcomes *abs# 2*

5:30 PM

Jacqueline Boyle

Before, between and beyond pregnancy – optimising reproductive health for all
abs# 3

6:00 PM

Jeff Keelan

New pharmacological strategies for preventing preterm birth *abs# 4*

ESA Senior Plenary Lecture

4:30PM - 5:00PM

Riverview Room 4

Chair: Warrick Inder

The conference acknowledges the support of



4:30 PM

Patrick Sexton (*Monash Institute of Pharmaceutical Sciences*)

Class B peptide hormone G protein-coupled receptors: linking structure to
function *abs# 5*

ESA Hot Topics

5:00PM - 6:15PM

Riverview Room 4

Chair: Morton Burt

5:00 PM

John Walsh

'Year in' thyroid cancer *abs# 6*

5:15 PM

Jerry Greenfield

'Year in' type 2 diabetes: epidemiology, aetiology and treatment *abs# 7*

5:30 PM

Evdokia Dimitriadis

'Year in' Women's Reproduction - Developing therapeutics for pregnancy disorders without toxic effects on the fetus *abs# 8*

5:45 PM

Warrick J Inder

'Year in' water homeostasis *abs# 9*

Welcome Function

6:30PM - 8:00PM

Pavilion 1 (Exhibition Area)

MONDAY 28TH AUGUST 2017

Novartis Breakfast Symposium - In Acromegaly, Control is Critical

7:00AM - 8:00AM

Riverview Room 4

This conference acknowledges the sponsorship of  **NOVARTIS**

Eisai Breakfast Symposium - Navigating the new landscape of managing radioiodine refractory differentiated thyroid Cancer

7:00AM - 8:00AM

Meeting Room 8

This conference acknowledges the sponsorship of



Joint ESA-SRB Welcome

8:30AM - 8:45AM

Riverside Theatre

ESA - Harrison Plenary

8:45AM - 9:45AM

Riverside Theatre

Chair: Warrick Inder

The conference acknowledges the support of



8:45 AM

Márta Korbonits (*Queen Mary University of London, UK*)

All you need to know about the genetics of pituitary adenomas *abs# 10*

ESA Servier Award Lecture

9:45AM - 10:00AM

Riverside Theatre

Chair: Gail Risbridger

The conference acknowledges the support of



9:45 AM

Jimmy Shen

Cardiac tissue injury and remodeling is dependent upon MR regulation of activation pathways in cardiac tissue macrophages *abs# 11*

SRB Orals - Ovarian and Oocyte Biology

8:45AM - 10:00AM

Riverview Room 4

Chairs: Robert Gilchrist & Rebecca Robker

- 8:45 AM **Goutham Narayanan Subramanian**
J. Greaney, Z. Wei, O. Becherel, M. Lavin, H. Homer
Premature ovarian insufficiency in the absence of Senataxin *abs# 12*
- 9:00 AM **Valentina Rodriguez-Paris**
S.M. Solon-Biet, M.C. Edwards, M.J. Bertoldo, R.B. Gilchrist, S.J. Simpson, D.J. Handelsman, K.A. Walters
The impact of macronutrient balance on the development of polycystic ovary syndrome (PCOS) traits *abs# 13*
- 9:15 AM **Wing Hong Ho**
D. Listigono, S. Li, D. Sinclair, H. Homer, L. Wu
Preservation of female reproduction from cancer treatment through manipulation of NAD⁺ *abs# 14*
- 9:30 AM **Jacinta H Martin**
E.G. Bromfield, R. Aitken, B. Nixon
Double strand break DNA Repair occurs via non homologues end joining in mouse MII oocytes *abs# 15*
- 9:45 AM **Chenxi Zhou**
Z. Wei, J. Greaney, S. Debottam, K. Khanna, H. Homer
Cep55 couples proteolysis with anaphase and interkinesis in oocytes *abs# 16*

SRB Orals - Morphogenesis and Function of the Male Reproductive Tract

8:45AM - 10:00AM

Meeting Room 2

Chairs: Moira O'Bryan & Jim Cummins

- 8:45 AM **Brett Nixon**
G.N. De Iuliis, M.D. Dun
Characterisation of mouse epididymosomes reveals a complex molecular payload and a potential mechanism for modification of the sperm proteome and epigenome *abs# 17*
- 9:00 AM **Barry T Hinton**
B. Xu, S.A. dos Santos
Mesenchymal cell radial intercalation is a major contributor to Wolffian/epididymal duct morphogenesis: Role of Protein Tyrosine Kinase 7. *abs# 18*
- 9:15 AM **Jinghua Hu**
A. Gaikwad, D.J. Merriner, A. O'Connor, M.P. Hedger, M.K. O'Bryan
The protective roles of epididymal cysteine-rich secretory proteins (CRISPs) in male fertility *abs# 19*

9:30 AM **John E Schjenken**
A.K. Foster, S.J. Hammond, C.J. Welsby, D.J. Sharkey, J. Breen, S.A. Robertson
At coitus seminal fluid activates genes associated with cholesterol biosynthesis in the endometrium of the mouse *abs# 20*

9:45 AM **Rukmali Wijayarathna**
B. Klein, S. Bhushan, A. Meinhardt, R. Middendorff, K.L. Loveland, D.M. De Kretser, M.P. Hedger
Infection of the murine epididymis with uropathogenic *E. coli* causes ductal obstruction and fibrosis, which cannot be resolved by antibiotic treatment alone *abs# 21*

SRB-ANZPRA Award Finalists

8:45AM - 10:00AM

Meeting Room 3

Chairs: Lisa Akison & Peter Mark

The conference acknowledges the support of  Society for Reproductive Biology  ANZPRA
Australian and New Zealand Placental Research Association

8:45 AM **Anya L Arthurs**
A. Mathe, E. Lumbers, K. Pringle
Placental microRNA expression and renin-angiotensin system activity are regulated by oxygen *abs# 22*

9:00 AM **Lisa F Stinson**
J.A. Keelan
Placental inflammation is associated with altered fetal immune responses at birth *abs# 23*

9:15 AM **Saije K Morosin**
S.J. Delforce, S. Rodrigues, K.G. Pringle, E.R. Lumbers
The prorenin receptor ((P)RR) and soluble prorenin receptor (s(P)RR) have roles in syncytiotrophoblast formation *abs# 24*

9:30 AM **Yao Wang**
G. Nie
High levels of HtrA4 observed in preeclamptic serum induce endothelial cell cycle arrest and senescence and inhibit endothelial progenitor cell differentiation for repair *abs# 25*

Morning Tea

10:00AM - 10:30AM

Pavilion 1 (Exhibition Area)

ESA Novartis Junior Scientist (Basic Science)

10:30AM - 12:00PM

Meeting Room 3

Chairs: Ashlee Clark & Nicolette Hodyl

The conference acknowledges the support of   NOVARTIS
endocrine society of australia

- 10:30 AM **Gabrielle Crisp**
O. Nyunt, I. Seim, L. Chopin, M. Harris, P. Jeffery
Ghrelin-Reactive autoantibodies are elevated in children with Prader-Willi Syndrome compared to unaffected controls *abs# 26*
- 10:45 AM **Rose Crossin**
A.J. Lawrence, B. Oldfield, A. Stefanidis, Z.B. Andrews, T. Pang, J.R. Duncan
Adolescent inhalant abuse induces an endocrine disorder analogous to adrenal insufficiency *abs# 27*
- 11:00 AM **Monica P Goney**
K.L. Walton, G.M. Goodchild, P.G. Stanton, C.A. Harrison
Characterising the physiology and therapeutic potential of inhibin A and B *abs# 28*
- 11:15 AM **Brooke A Pereira**
N.L. Lister, B. Niranjan, M.G. Lawrence, E.M. De-Juan-Pardo, S.J. Ellem, D.W. Hutmacher, G.P. Risbridger
3D bioengineered microtissues reveal key role of tumour microenvironment in early prostate carcinogenesis *abs# 29*
- 11:30 AM **Patrick Thomas**
P. Jeffery, M. Gahete, E. Whiteside, C. Walpole, M. Maugham, J. Gunter, C. Nelson, A. Herington, R. Luque, R. Veedu, L. Chopin, I. Seim
The lncRNA *GHSROS* mediates tumour growth and expression of genes associated with metastasis and adverse outcome *abs# 30*
- 11:45 AM **Kelly Short**
D. Bird, J. Ng, T. Cole
Glucocorticoid receptor-mediated signalling inhibits cell proliferation via repression of the V1 isoform of versican during mouse lung development *abs# 31*

SRB Orals - Complications of Pregnancy and Parturition

10:30AM - 12:00PM

Meeting Room 1

Chairs: John Newnham & Caitlin Wyrwoll

- 10:30 AM **Guiying Nie**
Y. Wang, Y. Li, M. Zhao, Q. Chen
Podocalyxin derived from maternal endothelial cells is present in pregnant serum and significantly increased in early-onset preeclampsia *abs# 32*

- 10:45 AM **Peck Yin Y Chin**
M.J. Davies, D.L. Russell, S.A. Robertson
 Clomiphene citrate administration during the pre-implantation period results in fetal growth retardation in mice *abs# 33*
- 11:00 AM **Alison S Care**
S.L. Bourque, E.P. Hjartarson, S.A. Robertson, S.T. Davidge
 Depletion of regulatory T cells alters the uterine artery function during pregnancy and causes fetal growth restriction *abs# 34*
- 11:15 AM **Yutthapong Tongpob**
E. Chivers, A. Mehnert, C. Wyrwoll
 Maternal protein restriction in mice reduces fetal growth and placental angiogenic gene expression in female but not male, fetuses. *abs# 35*
- 11:30 AM **Prabha Andraweera**
G. Dekker, S. Leemaqz, L. McCowan, J. Myers, L. Kenny, J. Walker, L. Poston, C. Roberts
 Maternal weight at birth and risk of pregnancy complications *abs# 36*
- 11:45 AM **Naomi M Scott**
A.C. Jones, J. Lauzon-Joset, K.T. Mincham, N.M. Troy, S.L. Prescott, S.A. Robertson, A. Bosco, P.G. Holt, D.H. Strickland
 Prophylactic treatment during pregnancy with a microbial-derived immunomodulator to protect mother and fetus against maternal bacterial infection induced complications. *abs# 37*

SRB Orals - Spermatogenesis and Sperm Biology

10:30AM - 12:00PM

Meeting Room 2

Chairs: Barry Hinton & Zamira Gibb

- 10:30 AM **Josephine Yu**
V. Lecomte, M. Fenech, J. Aitken, M.J. Morris, C.A. Maloney
 Beneficial impact of a dietary supplement on sperm characteristics in mice fed high fat diet *abs# 38*
- 10:45 AM **Avinash Gaikwad**
S. Lim, A. O'Connor, M. Kierzek, A. Nandagiri, D. Potter, T. Strünker, P. Ranganathan, M. O'Bryan
 The role of mouse CRISP2 in regulating sperm motility via ion channel regulatory activity *abs# 39*
- 11:00 AM **Mark A Baker**
M. Molloy, C. Krisp, G. Hime
 Splicing up your sex life: Why men are failing to produce in the bedroom *abs# 40*
- 11:15 AM **Shaun D Roman**
M.J. Xavier, B. Nixon, J. Aitken
 Use of modified DNA immunoprecipitation procedure to identify genomic regions vulnerable to oxidative DNA damage in human spermatozoa. *abs# 41*

- 11:30 AM **Josephine Bowles**
C. Feng, C. Spiller, M.K. O'Bryan, P. Koopman
 An essential function for a lonely SOX *abs# 42*
- 11:45 AM **Hidenobu H.O Okuda**
K.K. DeBoer, A.A. O'Connor, J.J. Merriner, D.D. Jamsai, M.M. O'Bryan
 LRGUK1 is required for manchette function, forming multiprotein complex with intracellular transportation proteins. *abs# 43*

ESA Clinical Orals - Outstanding Abstracts

10:30AM - 12:00PM

Riverside Theatre

Chairs: Emma Hamilton & Mathis Grossmann

- 10:30 AM **Radhika V Seimon**
A.A. Gibson, C. Harper, S. McClintock, M.S. Hsu, H.A. Fernando, T.P. Markovic, J. Franklin, J. Center, P.Y. Liu, N.M. Byrne, A. Sainsbury
 Fast versus slow weight loss: head to head comparison of effects on body composition and muscle strength in postmenopausal women with obesity – the TEMPO diet trial *abs# 44*
- 10:45 AM **Gregory R Fulcher**
W. Lane, T.S. Bailey, G. Gerety, J. Gumprecht, A. Philis-Tsimikas, C.T. Hansen, T. Schütt Svane Nielsen, M.L. Warren
 SWITCH 1: Reduced risk of hypoglycaemia with insulin degludec vs. insulin glargine U100 in patients with type 1 diabetes – a randomised, double-blind, crossover trial *abs# 45*
- 11:00 AM **Stefan V. Milevski**
A.S. Cheung, A.J. Tinson, R. Hoermann, J.D. Zajac, M. Grossmann
 Persistent adiposity 2 years after cessation of androgen deprivation therapy in men with prostate cancer. *abs# 46*
- 11:15 AM **Ann McCormack**
O. Dekkers, S. Petersenn, V. Popovic, J. Trouillas, G. Raverot, P. Burman
 Use of temozolomide in a large cohort of patients with aggressive pituitary tumours *abs# 47*
- 11:30 AM **Bu B Yeap**
L. Manning, P. Chubb, D.J. Handelsman, O.P. Almeida, G.J. Hankey, L. Flicker
 Progressive impairment of testicular endocrine function in ageing men: testosterone and dihydrotestosterone decrease, and luteinising hormone increases, in men transitioning from the 8th to 9th decades of life. *abs# 48*
- 11:45 AM **Stefan Bagheri-Fam**
M. Wong, S. Wilson, K. Ayers, R. Rastetter, P. Thomas, S. Nef, P. Gómez-Puertas, B. Puisac, M. Hernández-Marcos, S. Gil-Clavero, J. Pié, A. Sinclair, D. Wilhelm
 Mutations in the *HMGCS2* gene are associated with disorders of sex development *abs# 49*

ESA Clinical Symposium - Endocrinology of Pregnancy

10:30AM - 12:00PM

Riverview Room 4

Chairs: Shane Hamblin & Jennifer Ng

10:30 AM

Carolyn Allan

Endocrine disorders in pregnancy *abs# 50*

11:00 AM

Louise Maple-Brown

Update on hyperglycaemia in pregnancy *abs# 51*

11:30 AM

Christine Houlihan

Management of thyroid disorders in pregnancy *abs# 52*

ESA and ENSA Lunch

12:00PM - 1:00PM

Pavilion 1 (Exhibition Area)

SRB Plenary Founders' Lecture

12:00PM - 1:00PM

Riverside Theatre

Chair: Chris O'Neill

The conference acknowledges the support of



Reproduction, Fertility and Development

12:00 PM

Teresa Woodruff (*Northwestern University, USA*)

The surprising role of zinc in oocyte maturation and embryo progression *abs# 53*

ESA Meet The Professor (Clinical) - Genetics for Endocrinologists

12:15PM - 1:00PM

Riverview Room 4

Chair: David Torpy

12:15 PM

Roderick Clifton-Bligh

Genetics for endocrinologists *abs# 54*

ESA Translational Symposium - Scientific Discoveries Leading Change in Clinical Practice

1:00PM - 2:30PM

Riverside Theatre

Chairs: Peter Fuller & Bu Yeap

1:00 PM

Peter J Leedman

RNA-based therapeutics: the new kid on the block. *abs# 55*

1:30 PM

Gail Risbridger

Translation of a research discovery in prostate cancer with a gifted student, four patients and an international collaboration *abs# 56*

2:00 PM

Ian Caterson

Treatment of obesity is effective - why the barriers? *abs# 57*

Speaker supported by



ESA Clinical Orals - Sex-Steroids, Vitamin D and Bone

1:00PM - 2:36PM

Meeting Room 2

Chairs: Mark Cooper & Ee Mun Lim

1:00 PM

Mark Ng Tang Fui

R. Hoermann, M. Grossmann

Effect of testosterone treatment on adipokines and gut hormones in obese men on a hypocaloric diet *abs# 58*

1:12 PM

Mark Ng Tang Fui

R. Hoermann, J.D. Zajac, M. Grossmann

The effects of testosterone treatment on body composition in obese men are not sustained after cessation of therapy *abs# 59*

1:24 PM

Negar Naderpoor

A. Mousa, L. Gomez-Arango, H. Barrett, M. Dekker Nitert, B. de Courten

The effect of vitamin D supplementation on faecal microbiome in vitamin D-deficient, overweight or obese adults: a randomised clinical trial *abs# 60*

1:36 PM

Itamar Levinger

L. Parker, A. Garnham, G. McConell, N. Stepto, D. Hare, E. Byrnes, P. Ebeling, E. Seeman, T. Brennan-Speranza

Glucocorticoid induced suppression of osteocalcin is associated with attenuated post-exercise insulin sensitivity and impaired skeletal muscle mTOR and insulin signaling in humans. *abs# 61*

1:48 PM

Ada S. Cheung

O. Ooi, D. Davidoff, S.Y. Leemaqz, P. Cundill, N. Silberstein, I. Bretherton, M. Grossmann, J.D. Zajac

Cyproterone vs spironolactone as anti-androgen therapy for transgender females receiving oestradiol therapy. *abs# 62*

- 2:00 PM **Morton G Burt**
A. Radhakutty, C.J. Petersons, B.L. Mangelsdorf, S.M. Drake, C.H. Thompson, J.R. Greenfield, C.P. White
 Effect of prednisolone and hyperinsulinaemia on bone turnover in patients with inflammatory arthritis *abs# 63*
- 2:12 PM **Teresa Lam**
B. Cheema, A. Hayden, H. Gurney, S. Gounden, N. Reddy, G. Stone, M. McLean, V. Birzniece
 ADT in prostate cancer patients: prevention of adverse effects using a 6-month home-based progressive resistance training program. *abs# 64*
- 2:24 PM **Kun (Kathy) Zhu**
M. Knuiman, M. Divitini, E. Lim, A. StJohn, B. Cooke, J. Hung, J.P. Walsh
 Serum 25-hydroxyvitamin D as a predictor of mortality and cardiovascular events: a 20 year study of a community-based cohort *abs# 65*

SRB Lunch

1:00PM - 2:00PM

Pavilion 1 (Exhibition Area)

SRB Lighting Talks - Hudson ECR Poster Prize Finalists

1:10PM - 1:25PM

Pavilion 1 (Exhibition Area)

Chairs: Kirsty Walters & Craig Harrison

The conference acknowledges the support of



- 1:10 PM **Sarah J Delforce**
E.R. Lumbers, M. Lappas, T. Zakar, K.G. Pringle
 The role of the prorenin/(P)RR interaction in fetal membrane integrity *abs# 314*
- 1:13 PM **Jessica LH Walters**
B. Nixon, G. De Lullis, M. Dun, E. Bromfield
 Characterisation of 15 arachidonate lipoxygenase as a contributing factor to oxidative stress in human spermatozoa *abs# 315*
- 1:16 PM **Holly M Groome**
P. Chin, E.S. Green, R.L. Wilson, C.T. Roberts, S.A. Robertson
 Macrophage regulation of vascular remodelling is required for placental development in mice *abs# 316*
- 1:19 PM **Sophea Heng**
J. Evans, L. Salamonsen, T. Jobling, G. Nie
 Post-translational removal of α -DG-N is important for early stage endometrial cancer development *abs# 317*
- 1:22 PM **Aleona Swegen**
J. Aitken, N.D. Smith, Z. Gibb
 The serine protease testisin and its role in functional maturation of equine spermatozoa *abs# 318*

SRB Lightning Talks - Hudson MCR Poster Prize Finalists

1:25PM - 1:34PM

Pavilion 1 (Exhibition Area)

Chairs: Kirsty Walters & Craig Harrison

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Biology

HUDSON
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1:25 PM

Stella Liong

G. Barker, M. Lappas

The role of bromodomain protein 4 on the pathophysiology of preeclampsia
abs# 319

1:28 PM

Fiona Cousins

J. Deane, C. Gargett

Stem/progenitor cells contribute to luminal epithelial repair following endometrial
breakdown in a mouse model of menses. *abs# 320*

1:31 PM

Laura Lindsay

S. Dowland, R. Madawala, C. Murphy

Morphological differences in uterine epithelial cells after ovarian
hyperstimulation – ‘Receptive’ or ‘Non-Receptive’ at the time of implantation
abs# 321

SRB AGM

1:40PM - 2:40PM

Riverview Room 4

Afternoon Tea

2:30PM - 3:00PM

Pavilion 1 (Exhibition Area)

ESA Clinical Symposium - A focus on Women's Health: Premature Ovarian Insufficiency and Menopause

3:00PM - 5:00PM

Riverside Theatre

Chairs: Amanda Vincent & Shoshana Sztal-Mazer

3:00 PM

Gerard Conway

Oestrogen options for young women *abs# 66*

3:30 PM

Andrew Sinclair

The genetics of premature ovarian insufficiency *abs# 67*

4:00 PM

Susan Davis

Androgen therapy in women *abs# 68*

4:30 PM

Bronwyn Stuckey

Non-hormonal Management of Menopause *abs# 69*

SRB Symposium - Assisted Reproductive Technologies, Discovery to Bedside

3:00PM - 5:00PM

Riverview Room 4

Chairs: Lois Salamonsen & Teresa Woodruff

3:00 PM

Robert Gilchrist

Translating scientific advances in oocyte biology to the IVF clinic *abs# 70*

3:30 PM

Andrew J Pask

P.E. Gradie, P.A. Bernard, T. Phillips, D.M. Mattiske

Redefining the hormonal, developmental and molecular mechanisms driving urethral closure *abs# 71*

4:00 PM

Justin St. John

Mitochondrial DNA supplementation to enhance fertilisation and embryo development *abs# 72*

4:30 PM

Lindsay Wu

W. Ho, D. Listijono, M. Bertoldo, S. Li, N. Youngson, N. Braidy, P. Kordowitzki, N. Turner, M. Morris, R. Gilchrist, K. Walters, D. Sinclair, H. Homer

Protection and restoration of female fertility during gonadotoxic chemotherapy by elevating NAD⁺ *abs# 73*

SRB-ANZPRA Joint Symposium - Genesis of a Healthy Placenta

3:00PM - 5:00PM

Meeting Room 3

Chairs: Kirsty Pringle & Brendan Waddell

The conference acknowledges the support of



Society for
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Biology



ANZPRA

Australian and New Zealand Placental Research Association

3:00 PM

Mary Wlodek

Programming developmental disease risk: effects of lifestyle on pregnancy, placenta and offspring *abs# 74*

3:30 PM

Caitlin Wyrwoll

Pravastatin ameliorates fetoplacental vascular defects, and fetal growth in a model of glucocorticoid excess *abs# 75*

4:00 PM

Jonathan W Paul

S. Hua, M. Ilicic, J.M. Tolosa, T. Butler, S. Robertson, R. Smith

Applying nanopharmacology to reproductive medicine: A novel targeted drug delivery system for the uterus *abs# 76*

4:30 PM

Tina Bianco-Miotto

Recent progress towards understanding the role of DNA methylation in human placental development *abs# 77*

ESA Ken Wynne Award Presentation

3:00PM - 3:30PM

Meeting Room 2

Chair: Warrick Inder

The conference acknowledges the support of



3:00 PM

Kirsty Walters

Androgens excess and the pathogenesis of polycystic ovary syndrome *abs# 78*

ESA Basic Science Orals - Metabolic Regulation of Endocrine Systems

3:30PM - 5:00PM

Meeting Room 2

Chairs: Elizabeth Johnstone & Jenny Gunton

3:30 PM

Sing-Young Chen

M. Tsang, M. Swarbrick, J. Gunton

The role of beta-cell Hif1 α in the response of high fat diet-fed beta-TRAP mice to acute glucose challenge *abs# 79*

3:45 PM

John-Paul Fuller-Jackson

I.J. Clarke, A. Rao, B.A. Henry

Effect of caloric-restriction and exercise on hypothalamic appetite-regulating peptides in the ewe *abs# 80*

4:00 PM

Michelle Maugham

P. Thomas, G. Crisp, L. Philp, E. Shah, A. Herington, C. Chen, L. Gregory, C. Nelson, I. Seim, P. Jeffery, L. Chopin

Insights from engraftable immunodeficient mouse models of hyperinsulinaemia *abs# 81*

4:15 PM

Pawanrat Tangseefa

S.K. Martin, V. Wilczek, P. Baldock, C.G. Proud, S. Fitter, A.C. Zannettino

Metabolic and reproductive abnormalities in mice with impaired skeletal-mTORC1 function mirror a dietary restriction phenotype *abs# 82*

4:30 PM

Karen Moritz

M.J. Wing, D. Burgess, D. Zafirache, O. Rawashdeh

Periconceptual alcohol exposure results in sex-specific alterations to circadian rhythms of blood glucose and plasma corticosterone in rat offspring *abs# 83*

4:45 PM

Craig A Harrison

J.L. Chen, K.L. Walton, A. Hagg, T. Colgan, K.E. Johnson, H. Qian, P. Gregorevic

Specific targeting of TGF- β family ligands demonstrates distinct roles in the regulation of muscle mass in health and disease *abs# 84*

Joint ESA-SRB Poster Viewing

5:00PM - 7:00PM

Pavilion 1 (Exhibition Area)

'Meeting of the Minds' Networking Function

7:30PM - 10:00PM

Bob's Bar, Print Hall

The conference acknowledges the support of



TUESDAY 29TH AUGUST 2017

Pfizer Breakfast Symposium - Somavert®(pegvisomant) – The Role of a Growth Hormone Receptor Antagonist (GHRA) in Uncontrolled Acromegaly

7:00AM - 8:00AM

Meeting Room 3

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

ESA - Taft Lecture

8:30AM - 9:30AM

Riverside Theatre

Chair: Amanda Vincent

The conference acknowledges the support of



8:30 AM

Gerard Conway (*University College Hospital, UK*)
Premature ovarian insufficiency *abs# 85*

SRB - Robinson Research Institute Award

8:30AM - 9:10AM

Meeting Room 1 & 2

Chair: Sarah Robertson

The conference acknowledges the support of



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Biology



8:30 AM

Mark Green
Stimulating the ageing ovary: time for a new approach? *abs# 86*

SRB - SRF Exchange Lecture

9:10AM - 9:30AM

Meeting Room 1 & 2

Chair: Jeremy Smith

The conference acknowledges the support of



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Society for
Reproduction
and Fertility

9:10 AM

Agnes Stefansdottir
Z.C. Johnston, N. Powles-Glover, R.A. Anderson, I.R. Adams, N. Spears
Etoposide results in follicle loss in the fetal mouse ovary, but does not block the ability of oocytes to progress through prophase I of meiosis *abs# 87*

ESA-SRB Morning Tea

9:30AM - 10:00AM

Pavilion 1 (Exhibition Area)

SRB - Newcastle Award for Emerging Research Leaders

10:00AM - 11:30AM

Meeting Room 1 & 2

Chairs: Geoffry De Iuliis & Karla Hutt

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Biology



10:00 AM

Kelly L Walton

Engineering TGF- β proteins for the diagnosis and treatment of reproductive disorders *abs# 88*

10:30 AM

Michael J Bertoldo

Control of energy homeostasis and metabolism: implications for oocyte quality and reproductive potential *abs# 89*

11:00 AM

Zamira Gibb

B. Holt, A. Swegen, S.R. Lambourne, J. Aitken

Mitochondrial permeability transition pore formation during chilling and cryopreservation of stallion spermatozoa *abs# 90*

ESA - Special Guideline Session - Dynamic Endocrine Testing

10:00AM - 12:00PM

Riverside Theatre

Chairs: Ann McCormack & Duncan Topliss

10:00 AM

Cherie Chiang

HEDT (harmonised endocrine dynamic testing) and adaptation into local practice: endocrine and pathology department perspectives

10:15 AM

Warrick Inder

Water deprivation test

10:34 AM

Penelope Coates

72 hr fast

10:53 AM

Mathis Grossmann

TRH and tetroxin suppression test

11:08 AM

Cherie Chiang

N saline suppression test and AVS

11:27 AM

Ee Mun Lim

Cushing's assessment

11:46 AM

Warrick Inder

Conclusion, and future directions

ESA Basic Symposium - Mechanisms and Implications of Thermogenesis and Energy Expenditure

10:00AM - 11:30AM

Meeting Room 3

Chairs: George Muscat & Moe Thuzar

- 10:00 AM **Belinda A Henry**
The relative roles of adipose and skeletal muscle thermogenesis in determining weight loss and weight gain; studies from a large animal model *abs# 91*
- 10:30 AM **Jenny Gunton**
Colder, browner and thinner? *abs# 92*
- 11:00 AM **Ken Ho**
Diet-induced thermogenesis: fake friend or foe *abs# 93*

SRB Orals - Oozoa Award Finalists

11:30AM - 12:30PM

Meeting Room 3

Chairs: Kelly Walton & Josephine Bowles

The conference acknowledges the support of



- 11:30 AM **Macarena Gonzalez**
R. Robker
Advanced parental age is associated with decreased gamete quality and altered early embryonic development. *abs# 94*
- 11:45 AM **Bettina P Mihalas**
G.N. De Luliis, K.A. Redgrove, E.A. McLaughlin, B. Nixon
The lipid peroxidation product 4-hydroxynonenal contributes to oxidative stress-mediated deterioration of the ageing oocyte *abs# 95*
- 12:00 PM **Alexander Penn**
D. Zander-Fox, T. Fullston, N. McPherson, M. Lane
Maternal obesity alters the levels of Ten-Eleven Translocase (TET) proteins reducing 5-methylcytosine and 5-hydroxymethylcytosine in the early embryo *abs# 96*
- 12:15 PM **Wei Zhou**
A.L. Anderson, A.P. Turner, G.N. De Luliis, A. McCluskey, E.A. McLaughlin, B. Nixon
Characterisation of a novel role for the dynamin mechanoenzymes in the regulation of human sperm acrosomal exocytosis *abs# 97*

SRB Orals - Modulation of Reproductive Success by Immune Cells and Growth Factors

11:30AM - 12:30PM

Meeting Room 1 & 2

Chairs: John Schjenken & Alison Care

11:30 AM

William A Stocker

L.C. Patino, K.L. Walton, T. Mueller, D. Richani, D. Agapiou, R.B. Gilchrist, P. Laissue, C.A. Harrison

BMP15 mutations associated with female reproductive disorders reduce expression, activity, or synergy with GDF9. *abs# 98*

11:45 AM

Jeff Lauzon-Joset

N. Scott, K. Mincham, P. Holt, D. Strickland

Phrophylactic immunostimulation attenuates the adverse effects of Influenza infection during pregnancy *abs# 99*

12:00 PM

David J Sharkey

D.J. Glynn, J.E. Schjenken, K.P. Tremellen, S.A. Robertson

IFNG perturbs TGFB-mediated induction of CSF2 during the female ectocervical immune response to seminal fluid *abs# 100*

12:15 PM

Hon Y Chan

J.E. Schjenken, J. Breen, S.A. Robertson

RNA-sequencing reveals seminal fluid regulation of T cell receptor signalling pathway genes in the peri-implantation phase endometrium in mice *abs# 101*

ESA Meet The Professor - Hyponatremia

12:00PM - 12:45PM

Riverside Theatre

Chair: Peter Fuller

12:00 PM

Mathis Grossmann

Hyponatraemia *abs# 102*

ESA-SRB Lunch

12:30PM - 1:30PM

Pavilion 1 (Exhibition Area)

ESA-SRB-ECR Career Development Workshop

12:30PM - 1:30PM

Meeting Room 3

Chairs: Lisa Akison, Michael Bertoldo (SRB), Tim Cole, Belinda Henry (ESA)
Lunch boxes will be served directly outside the room.

12:30 PM Brief introduction and welcome by the ECR chair (Lisa Akison)

Panel Discussion: 'Navigating the transition from Post-doc to independent scientist'

12:32 PM **A/Prof Wendy Ingman** (University of Adelaide)

12:37 PM **Dr Karla Hutt** (Monash University)

12:42 PM **Dr Jeremy Smith** (University of Western Australia)

12:47 PM **Dr Renea Taylor** (Monash University)

12:52 PM **Dr Kevin Pflieger** (University of Western Australia)

Open Discussion with questions from ECR members

1:10 PM **Presented by A/Prof Rob Gilchrist** (University of NSW)
'Benchmarking' - building a competitive CV for grants/fellowships.
What are the most important elements to concentrate on?

ESA - Bryan Hudson Clinical Awards

1:30PM - 3:30PM

Riverside Theatre

Chairs: Mark Ng Tang Fui & Bu Yeap

The conference acknowledges the support of



1:30 PM **Moe Thuzar**
W. Law, G. Dimeski, M. Stowasser, K.K. Ho
Effect of mineralocorticoid blockade on human brown fat – a randomised placebo-controlled cross-over study *abs# 103*

1:45 PM **Soulmaz Shorakae**
E. Lambert, E. Jona, C. Ika Sari, B. de Courten, G. Lambert, H. Teede
Effects of central sympathoinhibition with moxonidine on the elevated sympathetic nervous activity and downstream metabolic abnormalities observed in polycystic ovary syndrome – a double blind randomised controlled trial *abs# 104*

2:00 PM **Jasna Aleksova**
P. Wong, R. McLachlan, K. Choy, P. Ebeling, F. Milat, G. Elder
Non-vertebral fractures are associated with higher sex hormone binding globulin levels in men receiving dialysis pre-transplantation *abs# 105*

- 2:15 PM **Tien F Lee**
S.M. Drake, B.L. Mangelsdorf, G.W. Roberts, S.N. Stranks, A.D. Bersten, L.K. Heilbronn, A.A. Mangoni, M.G. Burt
 Relative hyperglycaemia is an independent predictor of mortality in the critically ill patient *abs# 106*
- 2:30 PM **Lydia Lamb**
H. Alfonso, P.E. Norman, T.M. Davis, J. Forbes, G. Muench, B.B. Yeap
 Circulating advanced glycation end products and their endogenous secretory receptor are associated with bone turnover markers and with incidence of hip fracture in older men *abs# 107*
- 2:45 PM **Michael Mond**
E. Algar, M. Pell, L.A. Bach, J.C. Lee, M. Pace, J. Serpell, D.J. Topliss, C. Gilfillan, P.J. Fuller
 Development of a next generation sequencing platform for comprehensive somatic mutation testing in thyroid cancer *abs# 108*

SRB Symposium - Insights into the Regulation of Reproductive Biology

1:30PM - 3:30PM

Meeting Room 1

Chairs: Michael Davies & Wendy Ingman

- 1:30 PM **Margaret Morris**
 Metabolic impact of parental obesity affects offspring reproduction potential *abs# 109*
- 2:00 PM **Marilyn B Renfree**
 Insights into reproduction the marsupial way *abs# 110*
- 2:30 PM **Jon Evans**
 Female-induced remote regulation of sperm physiology enables eggs to 'choose' sperm from compatible males *abs# 111*
- 3:00 PM **Simon de Graaf**
J. Rickard, T. Pini, J. Maddison, K. Pool, N. Bernecic, X. Druart, T. Leahy
 Regulation of sperm function by seminal plasma *abs# 112*

SRB Symposium - The Molecular Regulation of Early Embryo Development

1:30PM - 3:30PM

Meeting Room 2

Chairs: Michael Bertoldo & Mark Green

- 1:30 PM **Chris O'Neill**
Y. Li
 Dynamic regulation of DNA methylation during early embryo development *abs# 113*
- 2:00 PM **Rebecca L Robker**
 Obesity, oocyte quality and the legacy of the egg *abs# 114*

2:30 PM **Lisa Lee**
Relationship between embryo kinetics, blastocyst metabolism and subsequent embryo viability *abs# 115*

3:00 PM **Hannah Brown**
There's more than meets the eye: the next generation of non-invasive embryo diagnostics for the IVF clinic *abs# 116*

Joint ESA-SRB - Cell-Cell Interactions in Reproductive Tissues

2:30PM - 3:15PM

Meeting Room 3

Chairs: Kelly Walton & Craig Harrison

2:30 PM **Caroline Gargett**
S. Darzi, J. Deane, C. Nold, S. Edwards, D. Gough, S. Mukherjee, S. Gurung, K. Tan, J. Werkmeister
Endometrial mesenchymal stromal/stem cells modulate the macrophage response to implanted polyamide/gelatin composite mesh in immunocompromised and immunocompetent mice *abs# 117*

2:45 PM **Dana Pueschl**
B. Klein, S. Indumathy, S. Kliesch, M. Hedger, K. Loveland, H. Schuppe, M. Bergmann
Immune privilege and neoplasia in human testis: potential role and functional polarization of M1 and M2 macrophages and dendritic cells *abs# 118*

3:00 PM **Caroline E Gargett**
H. Nguyen, L. Xiao, J. Deane, K. Tan, F. Cousins, C. Sprung
N-cadherin identifies human endometrial epithelial progenitor cells *abs# 119*

ESA-SRB Afternoon Tea

3:30PM - 4:00PM

Pavilion 1 (Exhibition Area)

ESA Mid-Career Award Lecture

4:00PM - 4:30PM

Riverside Theatre

Chair: Timothy Cole

The conference acknowledges the support of



4:00 PM **Frances Milat**
Managing osteoporosis in underserved populations *abs# 120*

SRB - David Healy New Investigator Award

4:00PM - 5:00PM

Meeting Room 1 & 2

Chairs: Fiona Cousins & Hayden Homer

The conference acknowledges the support of



4:00 PM

Quynh-Nhu Nguyen

N. Zerafa, S.H. Liew, A. Strasser, C. Scott, J. Findlay, M. Hickey, K. Hutt
Deciphering the molecular mechanisms underlying oocyte apoptosis during chemotherapy *abs# 121*

4:15 PM

Elizabeth Bromfield

J.L. Walters, B.P. Mihalas, M.D. Dun, E.A. McLaughlin, J. Aitken, B. Nixon
The targeted disruption of lipoxygenase enzymes prevents oxidative stress in the male germline *abs# 122*

4:30 PM

Samantha L Rodrigues

R. Mohammed, S.J. Delforce, E.R. Lumbers, K.G. Pringle
The role of the (Pro)renin receptor in trophoblast proliferation, migration and invasion *abs# 123*

4:45 PM

Jacinta I Kalisch-Smith

D.G. Simmons, M. Pantaleon, K.M. Moritz
Periconceptional alcohol exposure in the rat causes sex-specific changes to pre-implantation development and trophoblast differentiation *abs# 124*

ESA AGM

4:30PM - 5:30PM

Riverside Theatre

SRB Student Meeting - Professional Development Lecture

5:30PM - 6:30PM

Meeting Room 1 & 2

ESA Scientific Advancement Committee

6:00PM - 7:00PM

Meeting Room 12

ESA-SRB Conference Dinner

7:00PM - 11:30PM

Pre-dinner drinks from 7.00pm – 7.30pm

Bellevue Ballroom 2

WEDNESDAY 30TH AUGUST 2017

ESA-SRB-ADS-ADEA Presidents Breakfast (Invitation Only)

7:00AM - 8:30AM

Meeting Room 11

ESA & ADS Plenary

9:15AM - 10:30AM

Riverside Theatre

Chair: Peter Colman

The conference acknowledges the support of



9:15 AM

Lori Laffel

Improving biomedical & psychosocial outcomes in young persons with type 1 diabetes *abs# 125*

9:45 AM

Carla Greenbaum

Disease modifying therapy in T1D; what an endocrinologist needs to know *abs# 126*

ESA Basic Symposium - Nuclear receptor signalling in development and disease

8:30AM - 10:30AM

Bellevue Ballroom 2

Chairs: Patrick Sexton & Simon Chu

8:30 AM

Timothy Cole

B. Seow, K. Short, A. Bird, J. Ng

GRasping for air: nuclear receptor regulation of lung development and function *abs# 127*

9:00 AM

Karen E Chapman

E.J. Batchen, J.R. Ivy, R.V. Richardson, A. Thomson, C.M. Moran, E.A. Rog-Zielinska, G.A. Gray, M.C. Holmes

Glucocorticoid maturation of the fetal heart - implications for preterm birth and early life programming *abs# 128*

9:30 AM

George Muscat

T Guy Oh, S Ching Wang, Y Eng, R Fitzsimmons, M Pearen, D Dowhan,

E2/ER α regulation of epigenetic methyltransferase signalling in breast cancer: new insights into endocrine resistance *abs# 129*

10:00 AM

Brian Drew

The hormone nuclear receptor α and its role in mitochondrial health and metabolism *abs# 130*

SRB Orals - Impacts of Environmental Stress on Fertility

8:30AM - 9:30AM

Riverview Room 4

Chairs: Hannah Brown & Margaret Morris

8:30 AM

Mark P Green

A.P. Harper, B.J. Finger, A.J. Pask

Paternal atrazine exposure affects mouse pre-implantation embryo characteristics *abs# 131*

8:45 AM

Anna Aryani Amir

J. M Kelly, D. O Kleemann, Z. Durmic, D. Blache, G. B Martin

Extracts of forage plants affect *in vitro* fertilization and embryo development in sheep *abs# 132*

9:00 AM

Luba Sominsky

A. Soch, I. Ziko, M.R. Di Natale, S.N. De Luca, S.J. Spencer

A novel role for ghrelin in stress and infertility *abs# 133*

9:15 AM

Karika Olivier

L. Reinders, C. Wyrwoll, S. Maloney

Heat wave exposure during late gestation in mice alters maternal adaptations in pregnancy and decreases fetal and placental growth *abs# 134*

SRB Orals - Stem Cells and Their Reproductive Significance

8:30AM - 9:30AM

Meeting Room 3

Chairs: Caroline Gargett & Gail Risbridger

8:30 AM

Ruili Li

A. Vannitamby, S. Yue, J. Meijer, J. Hutson

Gonocyte transformation into spermatogonial stem cells (SSC): The key to understand infertility and malignancy of cryptorchidism *abs# 135*

8:45 AM

Sheena L.P. Regan

S. Mukherjee, S. Emmerson, J. Deane, F. Arfuso, A. Dharmarajan, C.E. Gargett

Identification of mesenchymal stem/stromal cells (MSCs) and their association with primordial follicle activation in an ovine model *abs# 136*

9:00 AM

Arnab Ghosh

P.S. Tanwar

Looking through the tube: Secretory cells act as the oviductal epithelial stem/progenitor cells *abs# 137*

9:15 AM

Ayesha Ali

P.S. Tanwar

Wnt and Vaginal fitness: Identification of a rare population of vaginal epithelial stem cells *abs# 138*

SRB President's Lecture

9:30AM - 10:30AM

Riverview Room 4

Chair: Chris O'Neill

The conference acknowledges the support of



Reproduction, Fertility and Development

9:30 AM

Vincent Harley (*Hudson Institute of Medical Research*)
How and why, SRY *abs# 139*

ESA-SRB-ADS-ADEA Morning Tea

10:30AM - 11:00AM

Pavilion 1 (Exhibition Area)

ESA & ADS Joint Symposium - Cancer and Metabolism

11:00AM - 1:00PM

Bellevue Ballroom 2

Chairs: Renea Taylor & Peter Leedman

11:00 AM

Daniel Galvão
Exercise as a synergistic medicine for cancer *abs# 140*

11:30 AM

Kyle Hoehn
Targeting metabolic vulnerabilities in obesity-related cancers *abs# 141*

12:00 PM

Matthew Watt
Manipulating lipid metabolism as a treatment for prostate cancer *abs# 142*

12:30 PM

Sean McGee
Common mechanisms of metabolic reprogramming in diabetes and breast cancer *abs# 143*

ESA Clinical Symposium - Transgender Endocrinology and Sexual Differentiation

11:00AM - 1:00PM

Riverview Room 5

Chairs: Jeffrey Zajac & Katie-Jane Wynne

11:00 AM

Michele O'Connell
Medical management of transgender and gender diverse youth – the challenges of providing optimal care *abs# 144*

11:30 AM

Vincent Harley
L. Hare, K. Balakrishnan, K. York, J. Erasmus, F. Harte, E. Vilain
A link between gender identity and genes involved in sex hormone signalling *abs# 145*

12:00 PM

Sarina Lim
A. Conway, V. Jayadev, S. Savkovic, C. Fennell, L. Turner, D. Handelsman
Management of adult transgender people with a focus on female to male (FTM) transgender men *abs# 146*

Joint ESA-SRB Symposium - Endocrine Control Of Reproduction

11:00AM - 1:00PM

Riverview Room 4

Chairs: Andrew Pask & Belinda Henry

- 11:00 AM **Jeremy T Smith**
The role of kisspeptin neurons in reproduction and metabolism *abs# 147*
- 11:30 AM **Bronwyn Stuckey**
Polycystic ovary syndrome – is the heterogeneity being forgotten? *abs# 148*
- 12:00 PM **Rebecca Campbell**
Dissecting the role of specific brain circuits in polycystic ovary syndrome (PCOS) *abs# 149*
- 12:30 PM **Christine Jasoni**
Gestation in an obese dam affects the formation and function of cells in the arcuate nucleus of the hypothalamus *abs# 150*

ESA Clinical Orals - Pituitary, Adrenal and Thyroid

11:00AM - 12:30PM

Meeting Room 6

Chairs: Ann McCormack & Morton Burt

- 11:00 AM **Matti Gild**
J. Hoang, E. Hsiao, G. Schembri, R. Clifton-Bligh
Role of ⁶⁸Gallium Dotatate-PET/CT in pre-operative assessment of pheochromocytoma and paraganglioma *abs# 151*
- 11:15 AM **Emily Meyer**
M.A. Nenke, W. Rankin, J.G. Lewis, J. Hofland, R.A. Feelders, D.J. Torpy
Low plasma high affinity corticosteroid binding globulin in human septic shock predicts mortality *abs# 152*
- 11:30 AM **Angela X Chen**
N. Naderpoor, B. Mangelsdorf, A.T. Zimmermann, M.G. Burt
Effects of triiodothyronine on energy expenditure and cardiovascular risk in two patients with a mutation in thyroid hormone receptor β *abs# 153*
- 11:45 AM **Sunita MC De Sousa**
A.I. McCormack, S. McGrath, D.J. Torpy
Use of prolactin in inferior petrosal sinus sampling is misleading *abs# 154*
- 12:00 PM **Meg Henze**
S. Brown, N. Hadlow, J. Walsh
Rationalising thyroid function testing: which TSH cut-offs are optimal for testing free T4? *abs# 155*
- 12:15 PM **Jennifer Ng**
E. Lim, N. Hadlow, J. Beilby, G. Watts, B. Stuckey
LC-MS/MS diagnostic criteria for 21 hydroxylase deficient non-classic congenital adrenal hyperplasia *abs# 156*

ESA Basic Orals - Novel Signaling in Hormone Dependent Cancers

11:00AM - 12:45PM

Meeting Room 7

Chairs: Christine Clarke & Shane Colley

- 11:00 AM **Peter J Fuller**
M. Alexiadis, S. Chu, D.T. Leung, S.M. Rowley, J. Li, K.C. Amarasinghe, I.G. Campbell
Mutational landscape of adult granulosa cell tumours of the ovary from whole exome sequencing *abs# 157*
- 11:15 AM **Sarah Bernhardt**
A. Townsend, T. Price, W. Ingman
Hormonal modulation of breast cancer gene expression and implications for diagnosis and treatment of premenopausal women *abs# 158*
- 11:30 AM **Esha T Shah**
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# 159*
- 11:45 AM **Sophie N Lee**
B. Chakrabarty, B. Wittmer, M. Papargiris, A. Ryan, M. Frydenberg, N. Lawrentschuk, R. Middendorff, G.P. Risbridger, S.J. Ellem, B. Exintaris
Myogenic tone as a novel model of contractility within the human prostate: implications for current therapeutics *abs# 160*
- 12:00 PM **Robert C Tuckey**
W. Li, D. Ma, C.Y. Cheng, K.M. Wang, S. Jeayeng, T. Kim, A.T. Slominski
CYP27A1 metabolises the pre-vitamin D3 photoproduct, lumisterol, to biologically active products. *abs# 161*
- 12:15 PM **Nalian Ibrahim**
M. Mond, P.J. Fuller, S. Chu
Inhibitors of XIAP as novel therapeutic agents in thyroid cancer *abs# 162*
- 12:30 PM **Nils Nesheim**
S. Ellem, G. Risbridger
The influence of macrophages on prostate cancer progression *abs# 163*

SRB Orals - Uterus, Placenta and Implantation

11:00AM - 1:00PM

Meeting Room 8

Chairs: Laura Lindsay & Tina Bianco-Miotto

- 11:00 AM **Sarah A Robertson**
B. Zhang, S.C. Barry, J.E. Schjenken, L.M. Moldenhauer
miRNA-155 is required to induce competent regulatory T cells and to protect against inflammation-induced fetal loss in mice *abs# 165*
- 11:15 AM **Lois Salamonsen**
J. Evans, G.S. Antoniotti, M. Coughlan
Obesity associated advanced glycation end products within the uterine cavity detrimentally impact endometrial function and implantation competence *abs# 166*
- 11:30 AM **Ella S Green**
L.M. Moldenhauer, S.R. McColl, S.A. Robertson
Reduced progesterone signalling at implantation compromises Treg cell tolerance and impairs fetal growth and viability in later gestation *abs# 167*
- 11:45 AM **Harriet Fitzgerald**
j. evans, L. Salamonsen, T. Edgell
The development of a novel 3D co-culture model to study the complex remodelling of the human endometrium *abs# 168*
- 12:00 PM **Shafiq M. Syed**
P.S. Tanwar
Ignore no more: role of uterine aging in fertility *abs# 169*
- 12:15 PM **James A Deane**
Y.R. Ong, F.L. Cousins, X. Yang, A.A. Mushafi, C.E. Gargett
Bone marrow-derived endometrial cells: transdifferentiation or misidentification? *abs# 170*
- 12:30 PM **Samson N Dowland**
C.L. Moore, L.A. Lindsay, C.R. Murphy
The induction of a non-receptive uterine surface by ovarian hyperstimulation *abs# 171*
- 12:45 PM **Kevin Danastas**
S.N. Dowland, C.R. Murphy, L.A. Lindsay
Effects of ovarian hyperstimulation on VEGF-mediated angiogenesis during uterine receptivity *abs# 172*

ESA-SRB-ADS-ADEA Lunch

1:00PM - 2:00PM

Pavilion 1 (Exhibition Area)



SIGNIFOR[®] LAR[®] PROVIDED SUPERIOR BIOCHEMICAL CONTROL* AND TUMOUR VOLUME SHRINKAGE

COMPARED TO CONTINUED TREATMENT WITH FIRST GENERATION SSAs IN PATIENTS WITH INADEQUATELY CONTROLLED ACROMEGALY¹

*Biochemical control was defined as mean GH <2.5 µg/L and normalised IGF-1.


Signifor[®] LAR[®]
pasireotide

SSA = Somatostatin analogs.

PBS Information: Section 100. Authority Required for the treatment of acromegaly in patients who meet certain conditions. Refer to PBS Schedule for full Authority information.

SEE APPROVED PRODUCT INFORMATION BEFORE PRESCRIBING. FOR THE MOST UP TO DATE PRODUCT INFORMATION GO TO [HTTP://WWW.NOVARTIS.COM.AU/PRODUCTS_HEALTHCARE.HTML](http://www.novartis.com.au/products_healthcare.html)

SIGNIFOR LAR[®] (pasireotide embonate) Indication: ♦ For the treatment of adult patients with acromegaly for whom surgery is not an option or has not been curative or who are inadequately controlled on treatment with other somatostatin analogues. **Dosage and administration:** ♦ The recommended initial dose of Signifor LAR is 40 mg administered by deep intramuscular injection every 4 weeks (q28d). The dose may be increased to a maximum of 60 mg for patients whose GH and/or IGF-1 levels are not fully controlled after 3 months of treatment with Signifor LAR at 40 mg. ♦ Management of adverse reactions or over response to treatment (IGF-1 < lower limit of normal) may require temporary or permanent dose reduction by 20 mg decrements every 4 weeks. ♦ The recommended initial dose for patients with moderate hepatic impairment (Child Pugh B) is 20 mg every 4 weeks and the maximum recommended dose is 40 mg every 4 weeks. ♦ See Full PI for instructions for use. ♦ **Contraindications:** ♦ Hypersensitivity to any ingredients listed. Severe hepatic impairment (Child Pugh C). **Precautions:** ♦ Women of child bearing potential are recommended to use effective contraception during treatment with pasireotide. ♦ **Pregnancy:** Should be used during pregnancy only if the expected benefit outweighs the potential risk to the fetus. ♦ **Breast-feeding:** Do not breast-feed. ♦ **Fertility:** May affect fertility. Inform patient of this possibility. Recommend use of effective contraception during treatment. ♦ **Use in paediatric patients:** Not recommended. ♦ **Hypocortisolism:** Monitoring and instructing patients on signs and symptoms of hypocortisolism is necessary. Temporary exogenous steroid replacement therapy and/or dose reduction or interruption of treatment may be necessary. ♦ **Hyperglycaemia/hypoglycaemia and Diabetes:** Elevations in blood glucose levels and less frequently hypoglycaemia have been observed with pasireotide. Assess glycaemic status [FPG/HbA1c] prior to starting treatment. FPG/HbA1c monitoring during treatment should follow established guidelines. Self-monitoring of blood glucose and/or FPG assessments should be done weekly for the first three months and periodically thereafter, as clinically appropriate as well as over the first four to six weeks after any dose increase. After treatment discontinuation, glycaemic monitoring should be done according to clinical practice. If hyperglycaemia develops, initiation or adjustment of anti-diabetics treatment is recommended. If uncontrolled hyperglycaemia persists, reduce dose or discontinue treatment. Patients with poor glycaemic control (HbA1c values >8% while receiving anti-diabetic therapy) may be at a higher risk of developing severe hyperglycaemia and associated complications (i.e. ketoacidosis). Diabetes management and monitoring should be intensified prior to initiation and during therapy. Patients with uncontrolled diabetes mellitus, intensive anti-diabetic therapy should be initiated prior to treatment and during treatment, additional monitoring and dose adjustments of the anti-diabetic therapy (including insulin) may be necessary. ♦ **Cardiovascular related events:** Monitoring of patients with cardiac disease and/or risk factors for bradycardia recommended. Dose adjustments of drugs such as beta-blockers, calcium channel blockers or agents to control electrolyte balance may be necessary. Pasireotide should be used with caution in patients who are at significant risk of developing prolongation of QT (e.g. patients with congenital long QT syndrome, uncontrolled or significant cardiac disease including recent myocardial infarction, congestive heart failure, unstable angina or clinically significant bradycardia, hypokalaemia and/or hypomagnesaemia, patients taking anti-arrhythmic medicinal products or other substances that are known to lead to QT prolongation). A baseline ECG is recommended prior to initiating therapy. Monitoring for an effect on the QTc interval is advisable 21 days after initiating therapy and as clinically indicated. Hypokalaemia or hypomagnesaemia must be corrected prior to administration and should be monitored periodically during therapy. ♦ **Liver Tests:** Monitoring of liver function is recommended prior to starting treatment, after the first two to three weeks and then monthly for three months on treatment. Thereafter, monitor as clinically indicated. Patients who develop increased transaminase levels should be monitored frequently until values return to pre-treatment levels. Discontinue therapy if patient develops jaundice or other signs suggestive of clinically significant liver impairment, in the event of a sustained increase in AST or ALT of 5 x ULN or greater, or if ALT or AST elevations greater than 3 x ULN occur concurrently with bilirubin elevations greater than 2 x ULN. Following discontinuation of treatment, patients should be monitored until resolution. Treatment should not be restarted if the liver function abnormalities are suspected to be related to Signifor LAR. ♦ **Gallbladder and Related Events:** Ultrasonic examination of the gallbladder before, and at 6 to 12-month intervals during therapy is recommended. ♦ **Pituitary Hormones:** Monitoring of pituitary function (e.g. TSH/free T₄, ACTH) is recommended prior to initiation of therapy and periodically during treatment. ♦ **Interactions:** Caution with concomitant use of drugs with low therapeutic index mainly metabolized by CYP3A4, bromocriptine, cyclosporin, strong P-gp inhibitors, anti-arrhythmic medicines, drugs that may lead to QT prolongation or bradycardic medicinal products. ♦ **Adverse effects** (adverse events reported in two Phase III studies with a frequency of at least 5%): diarrhoea, cholelithiasis, hyperglycaemia, headache, diabetes mellitus, alopecia, abdominal pain, nasopharyngitis, nausea, blood creatine phosphokinase increased, arthralgia, back pain, abdominal distension, dizziness, fatigue, sinus bradycardia, vomiting, hypertension, blood glucose increased, influenza, upper respiratory tract infection, alanine aminotransferase increased, injection site reaction, anaemia, pain in extremity, abdominal pain upper, aspartate aminotransferase increased, type 2 diabetes mellitus, flatulence, glycosylated haemoglobin increased, hypoglycaemia, bronchitis, constipation, cough, hepatic steatosis, lipase increased, urinary tract infection, blood bilirubin increased, electrocardiogram QT prolonged, weight decreased, muscle spasms, oropharyngeal pain, pyrexia, gamma-glutamyltransferase increased, glucose tolerance impaired, atrioventricular block first degree. Other notable adverse reactions (<5%): *adrenal insufficiency, decreased appetite, cholecystitis, blood amylase increased. Based on TGA approved Product Information dated 08 May 2017. (somlar080517m)

**Please note changes in Product Information*

References: 1. Gadelha MR, et al. *Lancet Diabetes Endocrinol.* 2014;2:875-84.

 **NOVARTIS**

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BASIC SCIENCE POSTERS

Ashlee Clark

H. Nim, N. Lister, M. Frydenberg, M. Lawrence, G. Risbridger, R. Taylor

Transcriptome profiling of single prostate cancer cells following androgen deprivation *abs# 164*

Christopher Rowe

T. Dill, S. King, C. Gedye, J. Paul, J. Tolosa, R. Smith

Thyroid cancers resected in patients with concurrent TSH-receptor stimulation have higher levels of sodium-iodide symporter (NIS) expression *abs# 173*

Elizabeth KM Johnstone

K.D. Pflieger

Heteromerisation of the angiotensin II type 1 receptor and the bradykinin type 2 receptor *abs# 174*

Lance Brooker

V. Agon, J. Grainger, A. Lisi, C. Goebel

Overview of emerging performance and image enhancing drugs (PIEDs) of concern in Australia *abs# 175*

Spencer T Greateorex

D. Bird, D. Reser, J. Ng, T.J. Cole

Characterisation of a novel species-restricted putative hydroxysteroid dehydrogenase called HSD1L in the pituitary-gonadal axis *abs# 176*

Shane M Colley

P.A. Candy, M.R. Phillips, A.D. Redfern, B.A. Wood, P.J. Leedman

Loss of SLIRP is associated with poorer prognosis and increased invasion in colorectal cancer *abs# 177*

Flavian Joseph

A. Love, K. Carruthers

Hypoglycaemia secondary to the Warburg-effect *abs# 178*

CLINICAL POSTERS

Simon Rajaratnam

V. Rajshekhar

Delayed hyponatremia following transsphenoidal surgery for pituitary adenomas *abs# 179*

Katie Wynne

M. Arora, K. Walker, R. . Duvivier

The effect of an educational session on attitudes toward delivery of transgender healthcare by medical students and general practitioners in the Hunter region *abs# 180*

Negar Naderpoor

S. Shorakae, S. Abell, A. Mousa, A. Joham, L. Moran, N. Stepto, P. Spritzer, H. Teede, B. de Courten
Bioavailable and free 25-hydroxyvitamin D and vitamin D binding protein in polycystic ovary syndrome: relationships with obesity and insulin resistance *abs# 181*

Soulmaz Shorakae

E. Jona, G. Lambert, E. Lambert, S. Phillips, I. Clarke, H. Teede, B. Henry

Brown adipose tissue thermogenesis in women with polycystic ovary syndrome *abs# 182*

Soulmaz Shorakae

S. Abell, D. Hiam, E. Lambert, E. Jona, C. Ika Sari, N. Stepto, G. Lambert, B. de Courten, H. Teede
High molecular weight adiponectin is inversely associated with sympathetic activity in polycystic ovary syndrome *abs# 183*

John W.P. Wong

C. Gilfillan

Long-term serum calcium levels, renal function, and bone mineral density in primary hyperparathyroidism: a comparison of medical and surgical therapy *abs# 184*

Louise Young

C. Reuter, X. Yu, M. Baig, C. Dutcus

An analysis of the baseline characteristics and outcomes, by responders and nonresponders, from the phase 3 study of (E7080) Lenvatinib in differentiated cancer of the thyroid (SELECT) *abs# 185*

Sasha Savkovic

S. Lim, G. Fraser, C. Fennell, L. Turner, V. Jayadev, A.J. Conway, D. Curtis, C. Goebel, D. Handelsman

Urine and serum sex steroids in testosterone (T)-treated female-to-male (F2M) transgender and hypogonadal men *abs# 186*

Michelle Isaacs

M. Costin, H.L. Barrett, K. Samaras, J.R. Greenfield

Retrospective review of 64 patients with amiodarone-induced thyrotoxicosis *abs# 187*

Roger Chen

T.S. Bailey, A. Bhargava, J.H. De Vries, G. Gerety, J. Gumprecht, W. Lane, C.H. Wysham, B.A. Bak, C.T. Hansen, A. Philis-Tsimikas

Within-day variability based on 9-point profiles correlates with risk of overall and nocturnal hypoglycaemia in adults with type 1 and type 2 diabetes *abs# 188*

Gary Wittert

E. Atlantis, M. Grossmann, B.B. Yeap, A. Conway, B. Stuckey, D. Handelsman, R. McLachlan, C. Allan, A. Jenkins, M. Daniel, K. Bracken

Testosterone for type 2 diabetes prevention in men: A 2-year multicentre, randomised, double-blind, placebo-controlled trial *abs# 189*

Mark Ng Tang Fui

R. Hoermann, M. Clarke, B. Nolan, J. Zajac, M. Grossmann

Effect of testosterone treatment on bone remodelling markers and bone density in obese dieting men in a randomized, placebo-controlled clinical trial *abs# 190*

Wenlin Cecilia Chi

N. Cheung

Sodium level on admission and in-hospital mortality *abs# 191*

Siew Lim

J. Dunbar, V. Versace, E. Janus, C. Wildey, T. Skinner, S. O'Reilly

Comparing a telephone- and a group-delivered diabetes prevention program: characteristics of engaged and non-engaged postpartum mothers with a history of gestational diabetes. *abs# 192*

Antony Kurishingal Aloysius

A. Ahmed, S. Chandran

Hyponatremia- How are we managing it ? *abs# 193*

Nicholas YN Chee

A. Abdul-Wahab, J.C. Doery, K. Choy, W. Chong, P.J. Fuller, C. Chiang, J. Yang

Adrenocorticotrophic hormone stimulation in adrenal vein sampling – friend or foe? *abs# 194*

Negar Naderpoor

A. Mousa, B. de Courten

Insulin sensitivity, 25-hydroxyvitamin D and phosphate levels and not calcium levels are determinants of bone mineral density in overweight and obese individuals. *abs# 195*

Amanda Seabrook

Li Fraumeni Syndrome and pheochromocytoma *abs# 196*

Angeline Shen

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

Clinical characterization of patients with Cushing's disease from two Australian tertiary hospitals. *abs# 197*

James P Robinson

V. Parameswaran, R.W. McCallum

Predictors of long term remission, relapse and non-resolution with anti-thyroid medication in Graves' disease in a Tasmanian population. *abs# 198*

Kathryn Berkman

W. Inder, A. Russell, L. Li, K. Haigh

Investigation and management of inpatient hyponatraemia. *abs# 199*

Lachlan B McMillan

D. Aitken, P.R. Ebeling, G. Jones, D. Scott

The relationship between objectively-assessed physical activity and bone mineral density in older adults differs by sex and is mediated by body weight *abs# 200*

Andrea Lamprecht

J. Sorbello, C. Jang, D. Torpy, W.J. Inder

Pituitary function in patients taking oral or transdermal opioid analgesics for non-cancer pain *abs# 201*

Serena Menezes

O. Narayan, S. Gwini, J. Shen, J. Yang, M. Young

24-hour blood pressure profile may distinguish primary aldosteronism from essential hypertension *abs# 202*

Sarina Lim

A. Conway, V. Jayadev, S. Savkovic, C. Fennell, L. Turner, D. Handelsman

Clinical features of female to male (FTM) transgender. *abs# 203*

Matthew Luttrell

E. Jackson, E. Hibbert

A retrospective audit of performance and image enhancing drug (PIED) use and associated biochemical and haematological abnormalities amongst visitors to a needle exchange clinic in Western Sydney *abs# 204*

Erin Fanning

E. Mackenzie, W. Inder

Radioiodine for graves disease a 10 year retrospective cohort study *abs# 205*

Aditi Nevgi

M. Mond, J. Wong

Clinical audit in the use of low versus high dose radioactive iodine in thyroid cancer: a local viewpoint
abs# 206

Andrea Fernandes

K. Sangla, V. Vanagveti, A. Binte, S. Ganagalla

Audit of characteristics of patients with low serum alkaline phosphatase levels *abs# 207*

Tarryn Sohn

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

Motivation, willingness and engagement in healthy behaviours in overweight men at high risk of diabetes participating in the testosterone for type 2 diabetes prevention in men (T4DM) study *abs# 208*

Olivia Coleman

S.K. Ramchand, B. Yeo, V. Wong, C. Luk, J.D. Zajac, M. Grossmann

Prevalence of secondary causes of bone loss in women treated with adjuvant endocrine therapy for breast cancer *abs# 209*

Sylvia F Xu

D. Renouf

A retrospective audit of secondary fracture prevention at Peninsula Health *abs# 210*

Katherine English

V. Chikani, G. Dimeski, W. Inder

Elevated insulin like growth factor 1 in Cushings disease *abs# 211*

Olivia Ooi

A.S. Cheung, D. Davidoff, I. Bretherton, M. Grossmann, J.D. Zajac

Clinical characteristics of trans and gender diverse individuals attending specialist endocrinology clinics.
abs# 212

Jennifer Yeh

A.S. Cheung, S. Lin, D. Lim Joon, J.D. Zajac, M. Grossmann

Decrease in number of men being commenced on androgen deprivation therapy for prostate cancer at a tertiary referral hospital over time. *abs# 213*

Alice Y Hong

M. Shanahan, T. Schenberg, W. Inder, R.J. MacIsaac, P. James, N. Sachithanandan

Outcomes of long-term surveillance of succinate dehydrogenase mutation carriers followed in a familial endocrine cancer clinic *abs# 214*

Nisa Sheriff

A. McCormack, Q. Lam, C. Lim, I. Bretherton, B. McWhinney, S. Hepburn, C. White, C. Chiang

Conundrum in Cushing's: UFC measured concurrently on three methods *abs# 215*

Nandini Shankara Narayana

I. DiPierro, C. Fennell, L.P. Ly, S. Savkovic, L. Turner, F. Bacha, L. Vrga, V. Jayadev, A.J. Conway, D. Handelsman

Sperm cryopreservation to insure fertility for men having gonadotoxic treatment: single centre experience over 4 decades *abs# 216*

Hikaru HH Hashimura

J.J. Shen, P.P. Fuller, N.N. Chee, J.J. Doery, W.W. Chong, K.K. Choy, S.S. Gwini, J.J. Yang

Can the saline suppression test predict the subtype of primary aldosteronism? *abs# 217*

Nisa Sheriff

S. De Sousa, N. Manzoor, V. Toogood, J. Greenfield, G. Jones, A. McCormack

Chicken or the egg: cortisol dysregulation is frequent but overt Cushing's syndrome is rare in an unselected type 2 diabetes population *abs# 218*

Eleanor P Thong

P. Wong, A. Dev, P.R. Ebeling, H. Teede, F. Milat

Increased prevalence of frequent hypoglycaemia and fracture in young adults with concomitant type 1 diabetes mellitus and coeliac disease *abs# 219*

Ailie B Connell

A.R. McNeil

Development of a simple method for reporting cortisol and aldosterone results and ratios after adrenal vein sampling *abs# 220*

Melina Bagala

P. Meikle, C. Yap, N. Mellett, G. Stone, N. Cheung, S. Lau, M. McLean, V. Birzneice

Maternal circulating lipid species predict babies large for gestational age independent of GDM *abs# 221*

Lisa K Akison

L.A. Gallo, J.L. Barclay, A. Zhuang, C. Chen, A.K. Fotheringham, K.M. Moritz

Glucose and insulin profiles during an oral glucose tolerance test (oGTT) are similar between fed and fasted states in a cohort of university students. *abs# 222*

Lisa K Akison

L.A. Gallo, J.L. Barclay, D. Burgess, S. Keshvari, A.K. Fotheringham, K.M. Moritz

Body composition to estimate percentage fat mass: Comparisons between common clinical methods and gold-standard air displacement plethysmography (BODPOD) in a cohort of university students. *abs# 223*

Dahlia Davidoff

J. Burgess

Primary hyperparathyroidism in multiple endocrine neoplasia type 1: clinical significance and threshold for intervention *abs# 224*

Stephen Twigg

C. Mathieu, B. Bode, E. Franek, A. Philis-Tsimikas, L. Rose, T. Graungaard, A. Østerskov, D. Russell-Jones

Efficacy and safety of fast-acting insulin aspart are maintained over 52 weeks: comparison with insulin aspart in onset 1 *abs# 225*

Stephen Twigg

A. Philis-Tsimikas, B. Bode, E. Franek, L. Rose, K. Buchholtz, M. Demissie, T.R. Pieber

Improved glycaemic control with carbohydrate counting for adjustment of fast-acting insulin aspart versus insulin aspart in subjects with type 1 diabetes *abs# 226*

Danish Mahmud

R. Iyer, C. Droste

Radioactive iodine (RAI) therapy for hyperthyroidism: An audit of safety and effectiveness. *abs# 227*

Malcolm Prentice

The causes of deaths and adverse events in inpatients with Diabetes Insipidus. A suggested strategy for electronic prescribing and a change of name to Pituitary Insipidus to improve safety. *abs# 228*

Nely Shrestha Khatri

S. Vasikaran, E. Gianatti, M. Wilson, E. Hamilton

A rare case of hypercalcemia associated with cryptococcal infection and immune reconstitution inflammatory syndrome with low 1, 25-dihydroxyvitamin D *abs# 229*

Thomas J Ulahannan

A. San

Audit of inpatient glucose control in a regional Queensland hospital *abs# 230*

CLINICAL CASE STUDY POSTERS**Senthil Thillainadesan**

T. Chua, M. Ly*, K. Wynne*

From renal salt-wasting to SIADH: a case report *abs# 231*

Katie Wynne

R. Wallbank

Chromosomes, hormones and gender: transsexualism in a patient with Klinefelter syndrome *abs# 232*

Meg Henze

M.M. Page, P. Fegan

Clinical and laboratory aspects of the effects of danazol on adrenal and sex hormone levels *abs# 233*

Jessica Lai

N. Niles, N. Lau

As clear as mud: an atypical case of primary hyperparathyroidism *abs# 234*

Dev A Kevat

A.K. Watts, N.S. Weber, P. Hamblin

Vanishing acromegaly *abs# 235*

Rakesh Iyer

S.F. Mok, S. Savkovic, L. Turner, G. Fraser, R. Desai, V. Jayadev, A.J. Conway, D.J. Handelsman

Pharmacokinetics of testosterone administered to scrotal skin *abs# 236*

Thomas J Ulahannan

M. D'Emden

Sustained, successful treatment of diabetes in lipodystrophy by dapagliflozin *abs# 237*

Walter E Plehwe

Central serous retinopathy: an uncommon presentation of Cushing's syndrome. *abs# 238*

Thora Chai

S. Jiang, N. Wilcken, S. Lim-Tio

Acute hyponatraemic encephalopathy secondary to adjuvant cyclophosphamide for breast cancer *abs# 239*

Tamara Y Milder

J. Greenfield, G. Matthews, J. Center

Hypophosphataemic osteomalacia induced by tenofovir disoproxil fumarate *abs# 240*

Kathryn Berkman

N. Ranjit Anderson, R. Cuneo

Jugulotympanic paraganglioma and thymoma co-occurrence in a patient with SDHA mutation *abs# 241*

Marcus Asokendaran

R. Gauci

Suspected parathyroid carcinoma staged with 18F-Fluorocholine PET CT. A case report. *abs# 242*

Bianca Nightingale

C. Scott, D. Heyworth-Smith, G. Hockings

To biopsy or not to biopsy *abs# 243*

Yu-Chin Lo

A. Sinha, A. McLean, K. Ganda

A case of seriously sore back after Denosumab discontinuation *abs# 244*

Hui Yi HN Ng

E.E. Hibbert

Diabetes mellitus: expect the unexpected? *abs# 245*

Christopher Muir

R. Mansberg, R. Russo, R. Boyle, F. Bonar, B. Crawford

Recurrent minimal trauma fractures in an atypical case of tumour-induced osteomalacia *abs# 246*

Natassia Rodrigo

B. Champion

Non-obstructive azoospermia: a case of sertoli cell only syndrome *abs# 247*

Senthil Thillainadesan

S. Acharya

Thyrotoxic periodic paralysis: an under-recognised complication of thyrotoxicosis *abs# 248*

Uyen N Pham

A. Morton, N. D'Silva

An unusual case of panhypopituitarism and infundibulo-hypophyseal enlargement. *abs# 249*

Andrea Fernandes

S. Carnelio, D. Heyworth-Smith

The eyes have it *abs# 250*

Kyaw Thura

S.H. Hlaing, V. Sannarangappa

Limbal stem cell deficiency in a patient with autoimmune polyglandular syndrome type 1 *abs# 251*

Kyaw Thura

R. Arenson

Addison's disease presenting with hypercalcaemia *abs# 252*

Jane J Tellam

I. Bonapart, D. Gowda, S.J. Cook

Acute hyponatraemia with an unexpected aetiology *abs# 253*

Shan Jiang

T. Wong, J. Flack

Cetuximab induced hypocalcaemia, hypomagnesaemia and hypoparathyroidism *abs# 254*

Veronica Boyle

K. Sullivan, T. Dwight, D. Benn, A. Gill, R. Clifton-Bligh, M. Croxson

Expanding the phenotype of the fumarate hydratase germline mutation familial cancer syndrome *abs# 255*

Alice Y Hong

A. Graf, M. Lee, D. Jayawardene, D.A. Pattison, R.J. MacIsaac, N. Sachithanandan
Two cases of adrenocortical carcinoma *abs# 256*

Thomas H Chesterman

J. Stranks, P. Mah

A previously well young woman who developed central diabetes insipidus after influenza vaccination *abs# 257*

Thomas Ulahannan

Management of metabolic complications after gastric bypass in type 1 diabetes *abs# 258*

Deila Dedic

C. Boyder, J. Joseph, R. Zhang, C. Choong, E. Lim

Close contact of an endocrinological kind *abs# 259*

Dilan Seneviratne Epa

M. Moore, S. Sztal-Mazer

A complex case of permanent hypoadrenalism with high dose glucocorticoid (HDGC) use for immune related adverse events (irAEs) of checkpoint inhibitors *abs# 260*

Josephine McCarthy

C. Yates

The molecular imaging of insulinomas *abs# 261*

Danish Mahmud

R. Iyer

The enigmatic triad of diabetic ketoacidosis, severe hyper-triglyceridaemia and acute pancreatitis: A case report and review of the literature. *abs# 262*

Jennifer Snaith

D. Chipps

Unusual patterns of endocrine irAEs in patients receiving checkpoint inhibitor immunotherapies *abs# 263*

Yang Du

C. Karapetis, W.J. Braund

Non-insulinoma pancreatogenous hypoglycaemia in adults (adult nesidioblastosis). When distal pancreatectomy fails to effect improvement, consider using everolimus. *abs# 264*

Matti Gild

M. Field, R. Clifton-Bligh

Pseudopseudopseudohypoparathyroidism *abs# 265*

Anna Wood

A. Yeung, P. Fuller

A case of familial primary adrenal insufficiency, impaired spermatogenesis and hypogonadotropic hypogonadism *abs# 266*

Dilshani DJ Jayawardene

R.R. Wong, C.C. Gilfillan

A case of severe post-prandial hypoglycaemia following gastric bypass surgery *abs# 267*

Diana MacKay

S. Chitturi

A curious case of hypocalcaemia *abs# 268*

Mina Mohammad Ebrahim

C. Gilfillan , R. Wong

Sellar and suprasellar masses: pituitary metastasis as an important differential *abs# 269*

Matthew Luttrell

Z. Apostoloski

Composite Pheochromocytoma: 2 cases *abs# 270*

Jennifer Snaith

D. Chipps

Will this ever end? Recurrent hypoglycaemia due to insulinomatosis *abs# 271*

Elizabeth George

F. Gunawan, A. Roberts

Immunotherapy induced endocrinopathies: the dilemmas of modern melanoma treatments. *abs# 272*

Elizabeth George

N. Harrison

Severe pancreatic allograft associated hypoglycaemia captured on an ambulatory continuous glucose monitoring system *abs# 273*

Pieter M Jansen

R. Malasingam, S.T. Wood, M. Stowasser

Two for the price of one: unravelling a complex case of resistant hypertension. *abs# 274*

Eugenie S Lim

J.T. Ho

An unusual cause of headaches in an adolescent *abs# 275*

Katherine English

W. Inder

The good the bad and the ugly of metastatic adrenocortical cancer *abs# 276*

Michele Bardin

P. Colman, C. Yates

Sella Dweller *abs# 277*

Brendan J Nolan

J.D. Zajac

The great masquerader: complications of severe catecholamine excess *abs# 278*

Rahul Barmanray

A. Shen, C. Seymour, P. Colman

Genetic Acromegaly: A tale of two tumours *abs# 279*

Natassia Rodrigo

S. Hocking

Transient diabetes insipidus in a postpartum woman with preeclampsia associated with residual placental vasopressinase activity *abs# 280*

Ahmed Hussein

A. Duke, M. Mclean, T. Hng

Precipitation of type 1 diabetes with anti-PD-1 immunotherapy *abs# 281*

Deniz Kuzulugil

Changing times: pituitary apoplexy *abs# 282*

Amy Harding

J. Dong, A. Watts, C. Yates

Vanishing non functioning pituitary macroadenoma *abs# 283*

Thomas Chesterman

A. Zimmermann, P. Mah, P. Vora

Profound hypocalcaemia following Denosumab for metastatic prostate carcinoma; an under-recognised and potentially fatal complication *abs# 284*

Nele Lenders

D. McLeod

Rapidly expanding Prolactinoma *abs# 285*

Anneke Graf

M. Daly, P. McKelvie, P. McNeill, Y. Wang, C. Caputo

Malignant sarcoma after irradiation for an aggressive non-functioning pituitary adenoma *abs# 286*

Brigette Clarke

M. Burt, N. Poplawski

Primary hyperparathyroidism in a young woman: Implications for genetic testing for CDC73 mutations *abs# 287*

Alicia Jones

B. Krishnamurthy

Diabetes insipidus and pituitary stalk thickening: wading through the water and concentrating the evidence *abs# 288*

Krupali Bulsari

L. Conway, W. Inder, L. Hayes, V. Chikani, P. Marlton, D. Wilkinson

Managing thyroid storm in a patient with carbimazole-induced agranulocytosis *abs# 289*

Nithin Kolanu

S. Perampalam

A case of untreated Hypopituitarism: Effects and current challenges *abs# 290*

GENE REGULATION POSTERS

Sarah C Moody

S. Wakitani, K. Loveland

Investigating the impact of activin A on the epigenetic regulation of male fetal germ cells *abs# 291*

Tamara Treleaven

M.B. Morris, M.L. Day

Expression of L-Proline transporters in early embryo development *abs# 292*

Yi-An Ko

M.B. Jamaluddin, P.S. Tanwar

Extracellular matrix (ECM) and Wnt signalling nexus in human uterine leiomyomas *abs# 293*

GROWTH FACTORS/CYTOKINES/IMMUNE SYSTEM POSTERS

Ali A Aflatounian

A.A. Moeini, R.R. Aflatoonian

Evaluating the expression levels of Toll Like Receptor 9 (TLR 9) in women with endometriosis and its comparison with normal endometrium *abs# 294*

Kevin Danastas

E.J. Miller, A.J. Hey-Cunningham, C.R. Murphy, L.A. Lindsay

The potential role of VEGF111 and other VEGF isoforms in the development of endometriosis *abs# 295*

MALE REPRODUCTIVE TRACT POSTERS

Jared Mamrot

S. Mamrot, M. Weybury, L. Wiadrowski, P. Temple-Smith, H. Dickinson

Anatomy and physiology of the male reproductive tract in the spiny mouse (*Acomys cahirinus*) across the lifespan. *abs# 296*

OOCYTE/FOLLICLE DEVELOPMENT/CORPUS LUTEUM POSTERS

Zhe Wei

H. Homer

Cyclin B1 is controlled at the translational level in small oocytes from pre-antral follicles *abs# 297*

Yu-Hsin Peng

Y. Chang, T. Tsai, J. Hwang

Potential involvement of Sirt1–PGC-1 α –Sirt3 modulating mitochondrial NADPH–NADH balance in association with FSH and TGF β 1-induced P450scc complex activity in ovarian granulosa cells *abs# 298*

PITUITARY/GONADAL AXIS POSTERS

Julie-Ann P De Bond

J.T. Smith

The response in *Kiss1r* KO mice to peripheral ghrelin or leptin administration *abs# 299*

PREGNANCY/PARTURITION/PLACENTA POSTERS

Kerry Richard

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

Identification of a placental transthyretin receptor and its role in placental transfer of transthyretin and thyroid hormone *abs# 300*

Prabha Andraweera

C. Roberts, S. Leemaqz, L. McCowan, J. Myers, L. Kenny, J. Walker, L. Poston, G. Dekker

The duration of sexual relationship and its effects on adverse pregnancy outcomes *abs# 301*

RECEPTORS/SIGNAL TRANSDUCTION POSTERS

Wei-Ling Fang

W. Lai, Y. Peng, T. I, J. Hwang

Crucial role of P2X7 receptor-pannexin1 in FSH and TGF β 1 regulation of ovarian steroidogenesis *abs# 302*

SPERMATOGENESIS/SPERM FUNCTION POSTERS

Tayler Catherine Kent

T. Hyndman, D. Miller, A. Barnes

Effect of ginseng extract on sperm characteristics in merino rams *abs# 303*

Brendan Houston

B. Nixon, J. Martin, K. McEwan, E. Bromfield, G. De Iuliis, J. Aitken

Whole body heating induces oxidative stress and DNA fragmentation in the male germ line *abs# 304*

Rashid Aldahhan

J. Muir, S. Hayward, P. Stanton, M. Hedger, D. de Krester

The effects of experimental cryptorchidism on spermatogenesis and inhibin-related protein production in the adult rat *abs# 305*

Christiane Pleuger

D. Fietz, W. Weidner, H. Schuppe, S. Kliesch, M. Baker, M. O'Bryan, M. Bergmann

The role of CBE1 (ciliated bronchial epithelium 1) during spermatogenesis *abs# 306*

Geoffry N De Iuliis

Causes and consequences of oxidative damage in the male germ line *abs# 307*

UTERUS/PLACENTA/IMPLANTATION POSTERS

Chad L. Moore

S. Dowland, L.A. Lindsay, C.R. Murphy

Stage-specific localisation of keratin intermediate filaments in uterine epithelial cells during normal pregnancy and ovarian hyperstimulation in the rat *abs# 308*

Premila Paiva

J. Donoghue, J. Fung, S. Holdsworth-Carson, J. Girling, G. Montgomery, P. Rogers

Identifying roles for the endometriosis risk gene vezatin in human endometrium *abs# 309*

Leigh Nicholson

Expression of focal adhesion-associated proteins during early pregnancy for indicator of metastatic potential *abs# 310*

OTHER POSTERS

Kavita Panir

E. Greaves, J. Schjenken, S. Robertson, M. Hull

MicroRNA-155 deficiency increases lesion development in a mouse model of endometriosis *abs# 311*

Mashitah Shikh Maidin

N. Abdul Halim, R. Nulit

Survey on feeding managements and reproductive status of different goat breeds in Peninsular Malaysia *abs# 312*

Nadia Bellofiore

J. Evans, P. Temple-Smith, H. Dickinson

Increased anxious behaviour during the premenstrual phase in the spiny mouse *abs# 313*

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The role of the prorenin/(P)RR interaction in fetal membrane integrity *abs# 314*

Jessica LH Walters

B. Nixon, G. De Iuliis, M. Dun, E. Bromfield

Characterisation of 15 arachidonate lipoxygenase as a contributing factor to oxidative stress in human spermatozoa *abs# 315*

Holly M Groome

P. Chin, E.S. Green, R.L. Wilson, C.T. Roberts, S.A. Robertson

Macrophage regulation of vascular remodelling is required for placental development in mice *abs# 316*

Sophea Heng

J. Evans, L. Salamonsen, T. Jobling, G. Nie

Post-translational removal of α -DG-N is important for early stage endometrial cancer development *abs# 317*

Aleona Swegen

J. Aitken, N.D. Smith, Z. Gibb

The serine protease testisin and its role in functional maturation of equine spermatozoa *abs# 318*

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The role of bromodomain protein 4 on the pathophysiology of preeclampsia *abs# 319*

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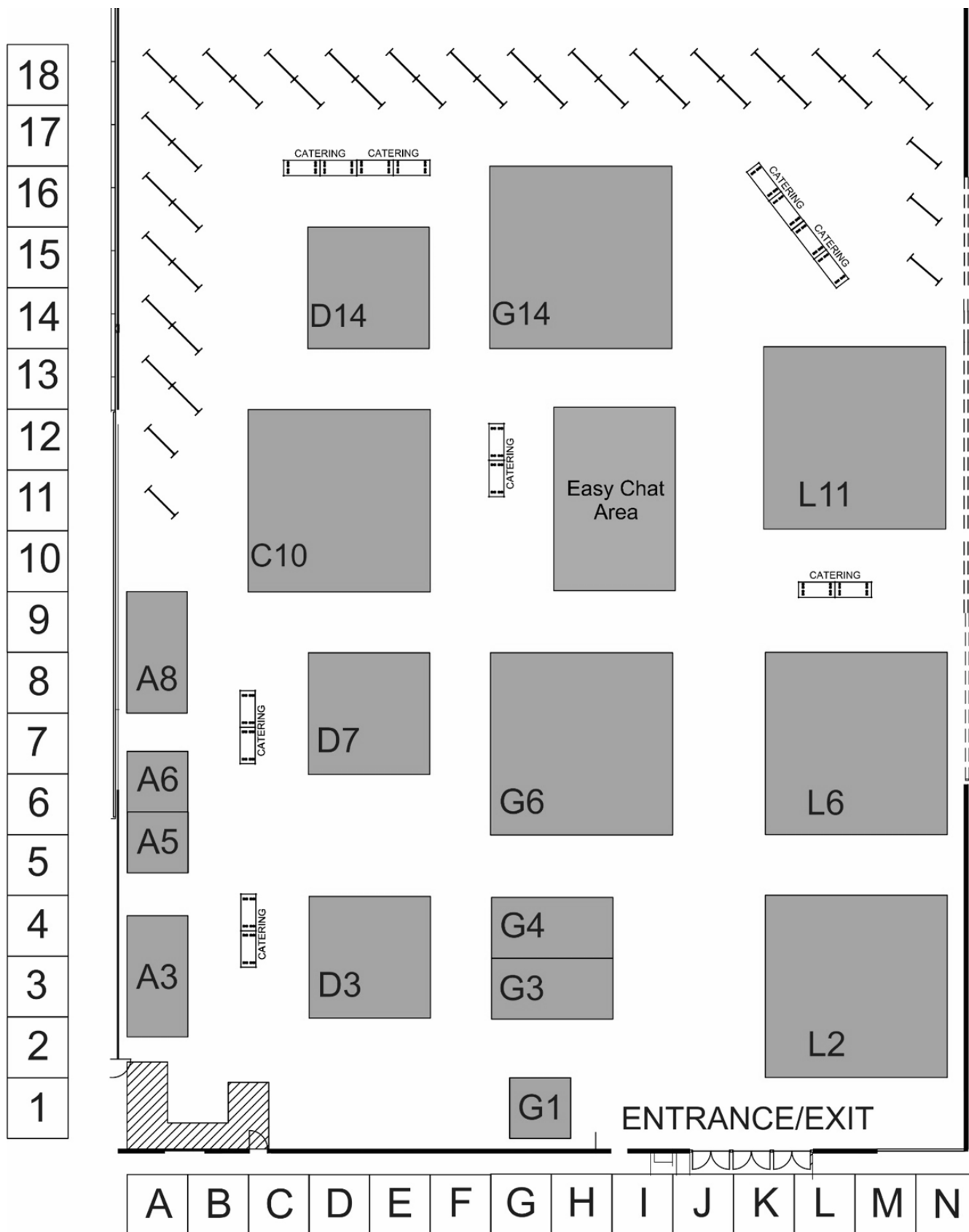
Laura Lindsay

S. Dowland, R. Madawala, C. Murphy

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AUTHOR LISTING

Alexiadis, M	157	Barrett, H	60	Caputo, C	286
Lai, W	302	Barrett, H.L	187	Care, A.S	34
Peng, Y	302	Barry, S.C	165	Carnelio, S	250
Abdul Halim, N	312	Batchen, E.J	128	Carruthers, K	178
Abdul-Wahab, A	194	Becherel, O	12	Caterson, I	57
Abell, S	181,183	Beilby, J	156	Center, J	240,44
Acharya, S	248	Bellofiore, N	313	Chai, T	239
Adams, I.R	87	Benn, D	255	Chakrabarty, B	160
Aflatoonian, R.R	294	Bergmann, M	118,306	Champion, B	247
Aflatounian, A.A	294	Berkman, K	199,241	Chan, H.Y	101
Agapiou, D	98	Bernard, P.A	71	Chan, Y	208
Agon, V	175	Bernecic, N	112	Chandran, S	193
Ahmed, A	193	Bernhardt, S	158	Chang, Y	298
Aitken, D	200	Bersten, A.D	106	Chapman, K.E	128
Aitken, J	122,304,318,38,41, 90	Bertoldo, M.J	13,79,89	Chee, N.N	217
Aitken, R	15	Bhargava, A	188	Chee, N.Y	194
Akison, L.K	222,223	Bhushan, S	21	Cheema, B	105
Aldahhan, R	305	Bianco-Miotto, T	77	Chen, A.X	153
Aleksova, J	105	Binte, A	207	Chen, C	222,81
Alfonso, H	107	Bird, A	127	Chen, J.L	84
Algar, E	108	Bird, D	176,31	Chen, Q	32
Ali, A	138	Birzneice, V	105,221	Chen, R	188
Allan, C	189,50	Blache, D	132	Chen, S	79
Almeida, O.P	48	Bode, B	225,226	Cheng, C.Y	161
Amarasinghe, K.C	157	Bonapart, I	253	Chesterman, T	284
Amir, A	132	Bonar, F	246	Chesterman, T.H	257
Anderson, A.L	97	Bosco, A	37	Cheung, A.S	212,213,46,62
Anderson, R.A	87	Bourque, S.L	34	Cheung, N	191,221
Andraweera, P	301,36	Bowles, J	42	Chi, W	191
Andrews, Z.B	27	Boyder, C	259	Chiang, C	194,215
Antonioti, G.S	166	Boyle, J	3	Chikani, V	211,289
Apostoloski, Z	270	Boyle, R	246	Chin, P	33,316
Arenson, R	252	Boyle, V	255	Chippis, D	263,271
Arfuso, F	136	Bracken, K	189,208	Chitturi, S	268
Arora, M	180	Braidy, N	73	Chivers, E	35
Arthurs, A.L	22	Braund, W.J	264	Chong, W	194
Asokendaran, M	242	Breen, J	101,20	Chong, W.W	217
Atlantis, E	189	Brennan-Speranza, T	61	Choong, C	259
Ayers, K	49	Bretherton, I	212,215,62	Chopin, L.K	26,30,81,159
B Martin, G	132	Bromfield, E	122,304,315	Choy, K	194,64
Bach, L.A	108	Bromfield, E.G	15	Choy, K.K	217
Bacha, F	216	Brooker, L	175	Chu, S	157,162
Bagala, M	221	Brown, H	116	Chua*, T	231
Bagheri-Fam, S	49	Brown, S	155	Chubb, P	48
Baig, M	185	Buchholtz, K	226	Clark, A	164
Bailey, T.S	188,45	Bulsari, K	289	Clarke, B	287
Bak, B.A	188	Burgess, D	223,83	Clarke, C.C	129
Baker, M	306	Burgess, J	224	Clarke, I	182
Baker, M.A	40	Burman, P	47	Clarke, I.J	80
Balakrishnan, K	145	Burt, M	287	Clarke, M	190
Baldock, P	82	Burt, M.G	106,153,63	Clifton-Bligh, R	151,255,265,54
Barclay, J.L	222,223	Butler, T	76	Cole, T	127,31
Bardin, M	277	Byrne, N.M	44	Cole, T.J	176
Barker, G	319	Byrnes, E	61	Coleman, O	209
Barmanray, R	279	Campbell, I.G	157	Colgan, T	84
Barnes, A	303	Campbell, R	149	Colley, S.M	177
		Candy, P.A	177	Colman, P	197,277,279

Connell, A.B	220	Dimitriadis, E	8	Fuller, P.J	108,157,162,194
Conway, A	146,189,203	DiPierro, I	216	Fuller, P.P	217
Conway, A.J	186,216,236	Divitini, M	65	Fuller-Jackson, J	80
Conway, G	66,85	Doery, J.C	194	Fullston, T	96
Conway, L	289	Doery, J.J	217	Fung, J	309
Cook, S.J	253	Dong, J	283	Gahete, M	30
Cooke, B	65	Donoghue, J	309	Gahete, M.D	159
Costin, M	187	dos Santos, S.A	18	Gaikwad, A	19,39
Coughlan, M	166	Dowland, S	171,172,308,321	Gallego-Ortega, D	129
Cousins, F	119,320	Drake, S.M	106,63	Gallo, L.A	222,223
Cousins, F.L	170	Drew, B	130	Galvão, D	140
Crawford, B	246	Droste, C	227	Ganagalla, S	207
Crisp, G	26,81	Druart, X	112	Ganda, K	244
Crossin, R	27	Du, Y	264	Gargett, C	117,320
Croxson, M	255	Duke, A	281	Gargett, C.E	119,170
Cundill, P	62	Dun, M	315	Gargett, C.E	136
Cuneo, R	241	Dun, M.D	122,17	Garnham, A	61
Curtis, D	186	Duncan, J.R	27	GAUCI, R	242
D'Emden, M	237	Durmic, Z	132	Gedye, C	173
d'Emden, M.C	300	Dutcus, C	185	George, E	272,273
D'Silva, N	249	Duvivier, R.	180	Gerety, G	188,45
Daly, M	286	Dwight, T	255	Ghosh, A	137
Danastas, K	172,295	Ebeling, P	61,64	Gianatti, E	229
Daniel, M	189	Ebeling, P.R	200,219	Gibb, Z	318,90
Darzi, S	117	Edgell, T	168	Gibson, A.A	44
Davidge, S.T	34	Edwards, M.C	13	Gil-Clavero, S	49
Davidoff, D	212,224,62	Edwards, S	117	Gilchrist, R	70,73
Davies, M	2	Elder, G	64	Gilchrist, R.B	13,98
Davies, M.J	33	Ellem, S.J	29,160,163	Gild, M	151,265
Davis, S	68	Emmerson, S	136	Gilfillan, C	108,184,269
Davis, T.M	107	English, K	211,276	Gilfillan, C.C	267
Day, M.L	292	Erasmus, J	145	Gill, A	255
De Bond, J.P	299	Evans, J	111,166,168,313,317	Girling, J	309
de Courten, B	104,181,183,195,60	Exintaris, B	160	Glynn, D.J	100
de Graaf, S	112	Fang, W	302	Goebel, C	175,186
De Iuliis, G	304,315	Fanning, E	205	Gomez-Arango, L	60
De Iuliis, G.N	17,307,95,97	Feelders, R.A	152	Gómez-Puertas, P	49
de Krester, D	305	Fegan, P	233	Goney, M.P	28
De Kretser, D.M	21	Fenech, M	38	Gonzalez, M	94
De Luca, S.N	133	Feng, C	42	Goodchild, G.M	28
De Sousa, S	154,218	Fennell, C	146,186,203,216	Gough, D	117
De Vries, J.H	188	Fernandes, A	207,250	Gounden, S	105
De-Juan-Pardo, E.M	29	Fernando, H.A	44	Gowda, D	253
Deane, J	117,119,136,320	Field, M	265	Gradie, P.E	71
Deane, J.A	170	Fietz, D	306	Graf, A	256,286
DeBoer, K.K	43	Findlay, J	121	Grainger, J	175
Debottam, S	16	Finger, B.J	131	Graungaard, T	225
Dedic, D	259	Fitter, S	82	Gray, G.A	128
Dekker, G	301,36	Fitzgerald, H	168	Greaney, J	12,16
Dekker Nitert, M	60	Flack, J	254	Greatorex, S.T	176
Dekkers, O	47	Flicker, L	48	Greaves, E	311
Delforce, S.J	123,24,314	Forbes, J	107	Green, E.S	167,316
Demissie, M	226	Foster, A.K	20	Green, M	86
Desai, R	236	Fotheringham, A.K	222,223	Green, M.P	131
Dev, A	219	Franek, E	225,226	Greenbaum, C	126
Dharmarajan, A	136	Franklin, J	44	Greenfield, J	218,240,7
Di Natale, M.R	133	Fraser, G	186,236	Greenfield, J.R	187,63
Dickinson, H	296,313	Frydenberg, M	160,164	Gregorevic, P	84
Dill, T	173	Fulcher, G.R	45	Gregory, L	81
Dimeski, G	103,211	Fuller, P	266	Groome, H.M	316

Grossmann, M	102,189,190,208,209,212,213,46,58,59,62	Hocking, S	280	Jones, G	200,218
Gumprecht, J	188,45	Hockings, G	243	Joseph, F	178
Gunawan, F	272	Hoehn, K	141	Joseph, J	259
Gunter, J	30	Hoermann, R	190,46,58,59	Kalisch-Smith, J.I	124
Gunton, J	79,92	Hofland, J	152	Karapetis, C	264
Gurney, H	105	Holdsworth-Carson, S	309	Keelan, J	4, 23
Gurung, S	117	Holmes, M.C	128	Kenny, L	301,36
Gwini, S	202	Holt, B	90	Kent, T	303
Gwini, S.S	217	Holt, P	99	Keshvari, S	223
Hadlow, N	155,156	Holt, P.G	37	Kevat, D.A	235
Hagg, A	84	Homer, H	12,14,16,297,73	Khanna, K	16
Haigh, K	199	Hong, A.Y	214,256	Kierzek, M	39
Hamblin, P	235	Houlihan, C	52	Kim, T	161
Hamilton, E	229	Houston, B	304	King, J	197
Hammond, S.J	20	Hsiao, E	151	King, S	173
Handelsman, D	146,186,189,203,216	Hsu, M.S	44	Klein, B	118,21
Handelsman, D.J	13,236,48	Hu, J	19	Kliesch, S	118,306
Hankey, G.J	48	Hua, S	76	Knuiman, M	65
Hansen, C.T	188,45	Hull, M	311	Ko, Y	293
Harding, A	283	Hung, J	65	Kolanu, N	290
Hare, D	61	Hussein, A	281	Koopman, P	42
Hare, L	145	Hutmacher, D.W	29	Korbonits, M	10
Harley, V	139,145	Hutson, J	135	Kordowitzki, P	73
Harper, A.P	131	Hutt, K	121	Krishnamurthy, B	288
Harper, C	44	Hwang, J	298,302	Krisp, C	40
Harris, M	26	Hyndman, T	303	Kurishingal Aloysius, A	193
Harrison, C.A	28,84,98	I, T	302	Kuzulugil, D	282
Harrison, N	273	Ibrahim, N	162	Laffel, L	125
Harte, F	145	Ika Sari, C	104,183	Lai, J	234
Hashimura, H.H	217	Illicic, M	76	Laissue, P	98
Hayden, A	105	Inder, W	9,199,201,205,208,211,214,276,289	Lam, Q	215
Hayes, L	289	Indumathy, S	118	Lam, T	64
Hayward, S	305	Ingman, W	158	Lamb, L	107
Hedger, M	118,305	Isaacs, M	187	Lambert, E	104,182,183
Hedger, M.P	19,21	Ivy, J.R	128	Lambert, G	104,182,183
Heilbronn, L.K	106	Iyer, R	227,236,262	Lambourne, S.R	90
Heng, S	317	Jackson, E	204	Lamprecht, A	201
Henry, B	182	Jamaluddin, M.B	293	Landers, K.A	300
Henry, B.A	80,91	James, P	214	Lane, M	96
Henze, M	155,233	Jamsai, D.D	43	Lane, W	188,45
Hepburn, S	215	Jang, C	201	Lappas, M	314,319
Herington, A	30,81	Jansen, P.M	274	Larkin, R	129
Hernández-Marcos, M	49	Jasoni, C	150	Lau, N	234
Hey-Cunningham, A.J	295	Jayadev, V	146,186,203,216,236	Lau, S	221
Heyworth-Smith, D	243,250	Jayawardene, D	256, 267	Lauzon-Joset, J	37,99
Hiam, D	183	Jeayeng, S	161	Lavin, M	12
Hibbert, E	204	Jeffery, P	26,30,81	Law, A.M	129
Hibbert, E.E	245	Jeffery, P.L	159	Law, W	103
Hickey, M	121	Jenkins, A	189	Lawrence, A.J	27
Hime, G	40	Jesudason, D	208	Lawrence, M	164
Hinton, B.T	18	Jiang, S	239,254	Lawrence, M.G	29
Hjartarson, E.P	34	Jobling, T	317	Lawrentschuk, N	160
Hlaing, S.H	251	Joham, A	181	Leahy, T	112
Hng, T	281	Johnson, K.E	84	Lecomte, V	38
Ho, J.T	275	Johnston, Z.C	87	Lee, J.C	108
Ho, K	93	Johnstone, E.K	174	Lee, L	115
Ho, K.K	103	Jona, E	104,182,183	Lee, M	256
Ho, W	14,73	Jones, A	288	Lee, S.N	160
Hoang, J	151	Jones, A.C	37	Lee, T.F	106

Leedman, P.J	177,55	Mangoni, A.A	106	Mok, S.F	236
Leemaqz, S	301,36	Manning, L	48	Moldenhauer, L.M	165,167
Leemaqz, S.Y	62	Mansberg, R	246	Molloy, M	40
Lenders, N	285	Manzoor, N	218	Mond, M	108,162,206
Leung, D.T	157	Maple-Brown, L	51	Montgomery, G	309
Levinger, I	61	Markovic, T.P	44	Moody, S.C	291
Lewis, J.G	152	Marlton, P	289	Moore, C.L	171
Li, H	300	Martin, J	304	Moore, C.L	308
Li, J	157	Martin, J.H	15	Moore, M	260
Li, L	199	Martin, S.K	82	Moran, C.M	128
Li, R	135	Mathe, A	22	Moran, L	181
Li, S	14,73	Mathieu, C	225	Moritz, K	83
Li, W	161	Matthews, G	240	Moritz, K.M	124,222,223
Li, Y	113,32	Mattiske, D.M	71	Morosin, S.K	24
Liew, S.H	121	Maugham, M	30,81	Morris, M	109,73
Lim, C	215	McCallum, R.W	198	Morris, M.J	38
Lim, E	156,259,65	McCarthy, J	261	Morris, M.B	292
Lim, E.S	275	McClintock, S	44	Morton, A	249
Lim, S	146,186,203,39	McCluskey, A	97	Mousa, A	181,195,60
Lim Joon, D	213	McColl, S.R	167	Mueller, T	98
Lim-Tio, S	239	McConnell, G	61	Muench, G	107
Lin, S	213	McCormack, A	215,218,47	Muir, C	246
Lindsay, L	321	McCormack, A.I	154	Muir, J	305
Lindsay, L.A	171,172,295	McCowan, L	301,36	Mukherjee, S	117,136
Lindsay, L.A	308	McEwan, K	304	Murphy, C	321
Liong, S	319	McGee, S	143	Murphy, C.R	171,172,295
Lisi, A	175	McGrath, S	154	Murphy, C.R	308
Lister, N	164	McKelvie, P	286	Muscat, G	129
Lister, N.L	29	McLachlan, R	189,64	Mushafi, A.A	170
Listigono, D	14	McLaughlin, E.A	122,95,97	Myers, J	301,36
Listijono, D	73	McLean, A	244	Naderpoor, N	153,181,195,60
Liu, P.Y	44	McLean, M	105,221,281	Nandagiri, A	39
Lo, Y	244	McLeod, D	285	Narayan, O	202
Love, A	178	McMillan, L.B	200	Nef, S	49
Loveland, K	118,291	McNeil, A.R	220	Nelson, C	30,81
Loveland, K.L	21	McNeill, P	286	Nelson, C.C	159
Luk, C	209	McPherson, N	96	Nenke, M.A	152
Lumbers, E	22	McWhinney, B	215	Nesheim, N	163
Lumbers, E.R	123,24,314	Mehnert, A	35	Nevgi, A	206
Luque, R	30	Meijer, J	135	Newnham, J.P	1
Luque, R.M	159	Meikle, P	221	Ng, H.H	245
Luttrell, M	204,270	Meinhardt, A	21	Ng, J	127,156,176,31
Ly, L.P	216	Mellet, N	221	Ng, M	208
Ly*, M	231	Menezes, S	202	Ng Tang Fui, M	190,58,59
M Kelly, J	132	Merriner, D.J	19	Nguyen, H	119
Ma, D	161	Merriner, J.J	43	Nguyen, Q	121
Maclsaac, R.J	214,256	Meyer, E	152	Nicholson, L	310
MacKay, D	268	Middendorff, R	160,21	Nie, G	25,317,32
Mackenzie, E	205	Mihalas, B.P	122,95	Nightingale, B	243
Madawala, R	321	Milat, F	120,219,64	Niles, N	234
Maddison, J	112	Milder, T.Y	240	Nim, H	164
Mah, P	257,284	Milevski, S.V	46	Niranjani, B	29
Mahmud, D	227,262	Miller, D	303	Nixon, B	122,15,17,304,315,41,95,97
Malasingam, R	274	Miller, E.J	295	Nolan, B	190
Maloney, C.A	38	Mincham, K	99	Nolan, B.J	278
Maloney, S	134	Mincham, K.T	37	Nold, C	117
Mamrot, J	296	Moeini, A.A	294	Norman, P.E	107
Mamrot, S	296	Mohammad Ebrahim, M	269	Nulit, R	312
Mangelsdorf, B	153	Mohammed, R	123	Nyunt, O	26
Mangelsdorf, B.L	106,63				

O Kleemann, D	132	Pringle, K.G	123,24,314	San, A	230
O'Bryan, M	306,39	Proud, C.G	82	Sangla, K	207
O'Bryan, M.K	42	Pueschl, D	118	Sannarangappa, V	251
O'Bryan, M.K	19	Puisac, B	49	Savkovic, S	146,186,203,216,236
O'Connell, M	144	Qian, H	84	Schembri, G	151
O'Connor, A	19,39	Radhakutty, A	63	Schenberg, T	214
O'Neill, C	113	Rajaratnam, S	179	Schjenken, J	311
Oh, T	129	Rajshekhar, V	179	Schjenken, J.E	100,101,165,20
Okuda, H.H	43	Ramchand, S.K	209	Schuppe, H	118,306
Oldfield, B	27	Ranganathan, P	39	Schütt Svane Nielsen, T	45
Olivier, K	134	Ranjit Anderson, N	241	Scott, C	121,243
Ong, Y.R	170	Rankin, W	152	Scott, D	200
Ooi, O	212,62	Rao, A	80	Scott, N	99
Ormandy, C	129	Rastetter, R	49	Scott, N.M	37
O`Bryan, M.M	43	Raverot, G	47	Seabrook, A	196
O`Connor, A.A	43	Rawashdeh, O	83	Seeman, E	61
Pace, M	108	Reddy, N	105	Seim, I	159,26,30,81
Page, M.M	233	Redfern, A.D	177	Seimon, R.V	44
Paiva, P	309	Redgrove, K.A	95	Seneviratne Epa, D	260
Pang, T	27	Regan, S.L	136	Seow, B	127
Panir, K	311	Reinders, L	134	Serpell, J	108
Pantaleon, M	124	Renfree, M.B	110	Sexton, P	5
Papargiris, M	160	Renouf, D	210	Seymour, C	279
Parameswaran, V	198	Reser, D	176	Shah, E	81
Parker, L	61	Reuter, C	185	Shah, E.T	159
Pask, A.J	131,71	Richani, D	98	Shanahan, M	214
Patino, L.C	98	Richard, K	300	Shankara Narayana, N	216
Pattison, D.A	256	Richardson, R.V	128	Sharkey, D.J	100,20
Paul, J	173	Rickard, J	112	Shen, A	197,279
Paul, J.W	76	Risbridger, G	163,164,56	Shen, J	11,202
Pell, M	108	Risbridger, G.P	160,29	Shen, J.J	217
Peng, Y	298	Roberts, A	272	Sheriff, N	215,218
Penn, A	96	Roberts, C	301,36	Shikh Maidin, M	312
Perampalam, S	290	Roberts, C.T	316	Shorakae, S	104,181,182,183
Pereira, B.A	29	Roberts, G.W	106	Short, K	127,31
Petersenn, S	47	Robertson, S	311,76	Shrestha Khatri, N	229
Petersons, C.J	63	Robertson, S.A	100,101,165,167,20,316,33,34,37	Silberstein, N	62
Pfleger, K.D	174	Robinson, J.P	198	Simmons, D.G	124
Pham, U.N	249	Robker, R	94	Simpson, S.J	13
Philis-Tsimikas, A	188,225,226,45	Robker, R.L	114	Sinclair, A	49,67
Phillips, L.K	197	Rodrigo, N	247,280	Sinclair, D	14,73
Phillips, M.R	177	Rodrigues, S	24	Sinha, A	244
Phillips, S	182	Rodrigues, S.L	123	Slominski, A.T	161
Phillips, T	71	Rodriguez-Paris, V	13	Smith, J.T	147,299
Philp, L	81	Rog-Zielinska, E.A	128	Smith, N.D	318
Pié, J	49	Rogers, P	309	Smith, R	173,76
Pieber, T.R	226	Roman, S.D	41	Snaith, J	263,271
Pini, T	112	Rose, L	225,226	Soch, A	133
Plehwe, W.E	238	Rowe, C	173	Sohn, T	208
Pleuger, C	306	Rowley, S.M	157	Solon-Biet, S.M	13
Pool, K	112	Russell, A	199	Sominsky, L	133
Poplawski, N	287	Russell, D.L	33	Sorbello, J	201
Popovic, V	47	Russell-Jones, D	225	Spears, N	87
Poston, L	301,36	Russo, R	246	Spencer, S.J	133
Potter, D	39	Ryan, A	160	Spiller, C	42
Powles-Glover, N	87	Sachithanandan, N	214,256	Spritzer, P	181
Prentice, M	228	Sainsbury, A	44	Sprung, C	119
Prescott, S.L	37	Salamonsen, L	166,168,317	St. John, J	72
Price, T	158	Samaras, K	187		
Pringle, K	22				

Stanton, P	305	Turner, A.P	97	Wong, J.W	184
Stanton, P.G	28	Turner, L	146,186,203,216,236	Wong, M	49
Stefanidis, A	27	Turner, N	73	Wong, P	219,64
Stefansdottir, A	87	Twigg, S	225,226	Wong, R	269
Stepto, N	181,183,61	Ulahannan, T	258	Wong, R.R	267
Stinson, L.F	23	Ulahannan, T.J	230,237	Wong, T	254
StJohn, A	65	Vanagveti, V	207	Wong, V	209
Stocker, W.A	98	Vannitamby, A	135	Wood, A	266
Stone, G	105,221	Vasikaran, S	229	Wood, B.A	177
Stowasser, M	103,274	Veedu, R	30	Wood, S.T	274
Stranks, J	257	Vilain, E	145	Woodruff, T	53
Stranks, S.N	106	Vora, P	284	Wu, L	14,73
Strasser, A	121	Vrga, L	216	Wynne, K	180,231,232
Strickland, D	99	Wakitani, S	291	Wyrwoll, C	134,35,75
Strickland, D.H	37	Walker, J	301,36	Wysham, C.H	188
Strünker, T	39	Walker, K	180	Xavier, M.J	41
Stuckey, B	148,156,189,69	Wallbank, R	232	Xiao, L	119
Subramanian, G	12	Walpole, C	30	Xu, B	18
Sullivan, K	255	Walsh, J	155,6	Xu, S.F	210
Swarbrick, M	79	Walsh, J.P	65	Yang, J	194,202
Swegen, A	318,90	Walters, J.L	122,315	Yang, J.J	217
Syed, S.M	169	Walters, K	73,78	Yang, X	170
Sztal-Mazer, S	260	Walters, K.A	13	Yap, C	221
Tan, K	117,119	Walton, K.L	28,84,88,98	Yates, C	197,261,277,283
Tangseefa, P	82	Wang, K.M	161	Yeap, B.B	189,48
Tanwar, P.S	137,138,169,293	Wang, S	129	Yeap, B.B	107,208
Taylor, R	164	Wang, Y	25,286,32	Yeh, J	213
Teede, H	104,181,182,183,219	Warren, M.L	45	Yeo, B	209
Tellam, J.J	253	Watt, M	142	Yeung, A	266
Temple-Smith, P	296,313	Watts, A	283	York, K	145
Thillainadesan, S	231,248	Watts, A.K	235	Young, L	185
Thomas, P	30,49,81	Watts, G	156	Young, M	202
Thomas, P.B	159	Weber, N.S	235	Youngson, N	73
Thompson, C.H	63	Wei, Z	12,16,297	Yu, J	38
Thomson, A	128	Weidner, W	306	Yu, X	185
Thong, E.P	219	Welsby, C.J	20	Yue, S	135
Thura, K	251,252	Werkmeister, J	117	Zajac, J	190
Thuzar, M	103	Weybury, M	296	Zajac, J.D	209,212,278,59
Tinson, A.J	46	White, C	215	Zajac, J.D	213,46,62
Tolosa, J.M	76	White, C.P	63	Zakar, T	314
Tolosa, J	173	Whiteside, E	30	Zander-Fox, D	96
TONGPOB, Y	35	Wiadrowski, L	296	Zanfirache, D	83
Toogood, V	218	Wijayarathna, R	21	Zannettino, A.C	82
Topliss, D.J	108	Wilcken, N	239	Zerafa, N	121
Torpy, D	197,201	Wilczek, V	82	Zhang, B	165
Torpy, D.J	152,154	Wilhelm, D	49	Zhang, R	259
Torpy, H.M	197	Wilkinson, D	289	Zhao, M	32
Townsend, A	158	Wilson, M	229	Zhou, C	16
Treleaven, T	292	Wilson, R.L	316	Zhou, W	97
Tremellen, K.P	100	Wilson, S	49	Zhu, K	65
Trouillas, J	47	Wing, M.J	83	Zhuang, A	222
Troy, N.M	37	Wittert, G	189,208	Ziko, I	133
Tsai, T	298	Wittmer, B	160	Zimmermann, A	284
Tsang, M	79	Wlodek, M	74	Zimmermann, A.T	153
Tuckey, R.C	161	Wong, J	206	Østerskov, A	225

NOTES

NOTES

NOTES
