

# ESA-SRB-ANZBMS 2021

VIRTUAL CONFERENCE

21 - 24 NOVEMBER 2021



CONFERENCE BOOKLET

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## CONTENTS

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	INSIDE FRONT COVER
CONFERENCE SPONSORS	
WELCOME FROM THE PRESIDENTS	4
OTHER MEETINGS OF INTEREST	4
SOCIETY SECRETARIATS	6
ESA-SRB-ANZBMS 2021 PROGRAM ORGANISING COMMITTEE	6
ESA-SRB-ANZBMS 2021 LOCAL ORGANISING COMMITTEE	7
ESA-SRB-ANZBMS 2021 EARLY CAREER ORGANISING COMMITTEE	7
ESA ABSTRACT REVIEWING COMMITTEE	8
SRB ABSTRACT REVIEWING COMMITTEE	9
ANZBMS ABSTRACT REVIEWING COMMITTEE	9
ENDOCRINE SOCIETY OF AUSTRALIA (ESA)	11
ESA OFFICE BEARERS 2021	11
PAST ESA OFFICE BEARERS 1958-2021	11
SOCIETY & CONFERENCE SECRETARIAT	11
SPONSORS, AWARDS AND LECTURERS OF THE ENDOCRINE SOCIETY OF AUSTRALIA	12
SOCIETY FOR REPRODUCTIVE BIOLOGY (SRB)	17
SRB OFFICE BEARERS 2021	17
PAST SRB OFFICE BEARERS 1969 - 2021	17
SPONSORS, AWARDS AND LECTURERS OF THE SOCIETY FOR REPRODUCTIVE BIOLOGY	18
AUSTRALIAN & NEW ZEALAND BONE AND MINERAL SOCIETY (ANZBMS)	22
ANZBMS OFFICE BEARERS 2021	22
PAST ANZBMS OFFICE BEARERS 1988-2021	22
SOCIETY & CONFERENCE SECRETARIAT	22
SPONSORS, AWARDS AND LECTURERS OF THE AUSTRALIAN & NEW ZEALAND BONE & MINERAL SOCIETY	23
ESA-SRB-ANZBMS AWARD WINNERS & PRESENTERS	28
ESA-SRB-ANZBMS INVITED PLENARY LECTURERS	31
ESA-SRB-ANZBMS SYMPOSIA SPEAKERS	32
ESA-SRB-ANZBMS PROGRAM	34
SUNDAY 21 <sup>ST</sup> NOVEMBER 2021	35
MONDAY 22 <sup>ND</sup> NOVEMBER 2021	38
TUESDAY 23 <sup>RD</sup> NOVEMBER 2021	51
WEDNESDAY 24 <sup>TH</sup> NOVEMBER 2021	64
ESA E-POSTER LISTING	73
SRB E-POSTER LISTING	83
ANZBMS E-POSTER LISTING	93
VIRTUAL SPONSORS AND EXHIBITORS	102
AUTHOR LISTING	105

## WELCOME FROM THE PRESIDENTS

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The Presidents of the Endocrine Society of Australia, Society for Reproductive Biology and The Australian & New Zealand Bone and Mineral Society wish you a very warm welcome to this joint Virtual Annual Scientific Meeting running from the 21-24 November 2021.

We have outstanding international and national plenary speakers from all societies including Prof Wiebke Arlt (ESA Harrison Lecturer), Prof Mirjam Christ-Crain (ESA Taft Lecturer), Prof Bruce Murphy (SRB President's lecture: Ovarian function), Prof Neil Gemmell (SRB Founder's lecture: Conservation and Evolutionary Biology), Prof Sarah Kimmins (ESA/SRB Plenary lecture: Endocrine disrupting compounds and fertility), Prof Marjolein van der Meulen (ANZBMS Plenary lecture) & Prof Björn Busse (ANZBMS Plenary lecture).

Additionally, our program organising committees have brought together a program covering the most state-of-the art advances in the fields of Endocrinology, Reproduction and Bone and Mineral Research, including awards sessions, oral presentations and poster abstracts.

We look forward to e-meeting everyone and networking via the virtual platform, which includes some great new innovations to keep us connected, as well as hearing about the latest medical and scientific advances across all 3 societies.

This year's virtual conference will run for four days with up to four streams broadcasted each day, and will feature both live and pre-recorded presentations.

And while it's best to attend while it's live, all attendees will have access to the interactive platform which will allow you to catch up on sessions you may have missed 'on demand' after the event.

The 2021 program offers ample opportunities to learn about recent advances, present your research, interact with invited presenters & award participants as well as network with your colleagues.

On behalf of ESA, SRB and ANZBMS, welcome to the meeting, thank you for your participation, and we hope to meet again face-to-face in future meetings.



**Prof Bu Yeap**  
ESA President



**Prof Moira O'Bryan**  
SRB President



**Prof Natalie Sims**  
ANZBMS President

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## OTHER MEETINGS OF INTEREST

### ESA Seminar Meeting 2022

29 April – 1 May 2022

Albert Hall, Launceston, Tasmania

[www.esaseminar.org.au](http://www.esaseminar.org.au)

### ESA Clinical Weekend 2022

11 – 13 November 2022

Christchurch, New Zealand

[www.esaclinicalweekend.org.au](http://www.esaclinicalweekend.org.au)

### ANZBMS-MEPSA ASM 2022

1 – 4 August 2022

Gold Coast Convention & Exhibition Centre

[anzbmsconference.org](http://anzbmsconference.org)

### ESA-SRB-APEG-NZSE ASM 2022

13 – 16 November 2022

Te Pae, Christchurch, New Zealand

[www.esa-srb.org.au](http://www.esa-srb.org.au)



# EVENTITY® works differently\* to treat osteoporosis

\*EVENTITY builds bone rapidly by simultaneously increasing bone formation and decreasing bone resorption with 12 monthly doses in patients who need it the most<sup>1</sup>



**PBS Information:** Authority Required as treatment for severe established osteoporosis. Criteria Apply. Refer to PBS Schedule for full information.

Refer to full Product Information before prescribing – available from Amgen Australia Ph: 1800 803 638 or at [www.amgen.com.au/Eventity.PI](http://www.amgen.com.au/Eventity.PI)

For more information on EVENTITY®, or to report an adverse event or product complaint involving EVENTITY®, please contact Amgen Medical Information on 1800 803 638 or visit [www.amgenmedinfo.com.au](http://www.amgenmedinfo.com.au)

▼ This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at [www.tga.gov.au/reporting-problems](http://www.tga.gov.au/reporting-problems).

**EVENTITY MINIMUM PRODUCT INFORMATION. INDICATIONS:** Treatment of osteoporosis in postmenopausal women at high risk of fracture. Treatment to increase bone mass in men with osteoporosis at high risk of fracture. **CONTRAINDICATIONS:** Uncorrected hypocalcaemia. Hypersensitivity to romosozumab, CHO-derived proteins or any component. **PRECAUTIONS:** Correct hypocalcaemia prior to initiating therapy. Monitor patients for signs and symptoms. Adequately supplement intake of calcium and vitamin D. Initiate appropriate therapy and discontinue use if anaphylactic or other clinically significant allergic reaction occurs. Consider the benefit-risk in patients at increased risk for myocardial infarction or stroke. Instruct patients to watch for symptoms of myocardial infarction and stroke and to seek prompt medical attention if symptoms occur. Assess cardiovascular risk factors prior to treatment. A patient's suitability for treatment should be based on individual benefit-risk assessment. Consider relative benefits and risks of treatment in patients at high cardiovascular risk. Treatment should not be initiated in patients who have had a myocardial infarction or stroke within the preceding year. Discontinue use if myocardial infarction or stroke occurs during therapy. Evaluate patients for risk factors for osteonecrosis of the jaw (ONJ); use with caution in these patients. Consider discontinuation if osteonecrosis of the jaw occurs. Rare reports of atypical femoral fractures. **ADVERSE EFFECTS:** Common: nasopharyngitis, arthralgia, back pain, pain in extremity, fall, headache, hypertension, viral upper respiratory tract infection, osteoarthritis, influenza, musculoskeletal pain, upper respiratory tract infection, muscle spasms, dizziness, constipation, cough, urinary tract infection, myalgia, diarrhoea, confusion, gastritis, upper abdominal pain, spinal osteoarthritis, bronchitis, peripheral oedema, asthenia, dyslipidaemia, neck pain, cataract, paraesthesia. **DOSAGE AND ADMINISTRATION:** Subcutaneous injection of 210 mg, once every month for 12 doses. To administer 210 mg, give two subcutaneous injections. Ensure adequate intake of calcium and vitamin D. After completing therapy, transition to antiresorptive osteoporosis therapy. No dose adjustment required in the elderly or in renal impairment. **PRESENTATION:** Pre-filled syringe, supplied as a 2-pack. Refer to full Product Information before prescribing – available from Amgen Australia Ph: 1800 803 638 or at [www.amgen.com.au/Eventity.PI](http://www.amgen.com.au/Eventity.PI). **Reference:** 1. EVENTITY® (romosozumab) Approved Product Information. Available at: [www.amgen.com.au/Eventity.PI](http://www.amgen.com.au/Eventity.PI)

## SOCIETY SECRETARIATS

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### Endocrine Society of Australia

145 Macquarie Street  
Sydney, NSW 2000  
ijohnson@endocrinesociety.org.au  
Contact person : Ivone Johnson  
www.endocrinesociety.org.au

### Australian & New Zealand Bone and Mineral Society

145 Macquarie Street  
Sydney, NSW 2000  
ijohnson@anzbms.org.au  
Contact person : Ivone Johnson  
www.anzbms.org.au

### Society for Reproductive Biology

Unit 9/397 Smith Street,  
Fitzroy VIC 3065  
Phone 03 8658 9530  
Fax: 03 8658 9531  
SocietyReproductiveBiology@gmail.com  
Contact person: David Sharkey  
www.srb.org.au

### Conference Secretariat – ASN Events

Unit 9/397 Smith Street,  
Fitzroy VIC 3065  
Phone 03 8658 9530  
Fax: 03 8658 9531  
Jim.f@asnevents.net.au  
Contact person: Jim Fawcett  
www.asn.events

## ESA-SRB-ANZBMS 2021 PROGRAM ORGANISING COMMITTEE

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### ESA PROGRAM CO-CHAIRS



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RESEARCH, UNIVERSITY  
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CASSANDRA SMITH  
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AND SPORT (IHES),  
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JASON TALEVSKI  
UNIVERSITY OF  
MELBOURNE

## ESA-SRB-ANZBMS 2021 EARLY CAREER ORGANISING COMMITTEE

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ROYAL ADELAIDE HOSPITAL



LIZ JOHNSTONE  
THE UNIVERSITY OF WESTERN AUSTRALIA

### SRB ECR CO-CHAIRS

### ANZBMS ECR CHAIR



JESSICA DUNLEAVY  
UNIVERSITY OF MELBOURNE



DULAMA RICHANI  
UNIVERSITY OF NEW SOUTH WALES



AYSE ZENGIN  
SCHOOL OF CLINICAL SCIENCES  
AT MONASH UNIVERSITY

## ESA ABSTRACT REVIEWING COMMITTEE

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**Mitchell Lawrence** (Basic Science Co-Chair)  
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**Timothy Cole**  
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**Don McLeod**  
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*Monash Health*

**Mark Ng Tang Fui**  
*Austin Health*

**Nicholas Russell**  
*Austin Health*

**Aneta Stefanidis**  
*Monash University*

**Phillip Wong**  
*Hudson Institute*

**Jun Yang**  
*Hudson Institute of Medical Research*



## SRB ABSTRACT REVIEWING COMMITTEE

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**Tu'uhevaha Kaitu'u-Lino** (Co-Chair)  
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**John Schjenken** (Co-Chair)  
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**Elizabeth Bromfield**  
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**Fiona Brownfoot**  
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**Simon de Graaf**  
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*University of Melbourne*

**Natalie Hannan**  
*University of Melbourne; Mercy Hospital for Women*

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**Darryl Russell**  
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*Hudson Institute for Medical Research*

## ANZBMS ABSTRACT REVIEWING COMMITTEE

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*Westmead and Royal North Shore Hospital*

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*Garvan Institute of Medical Research*

**Craig Munns (Clinical Co-Chair)**  
*The Children's Hospital at Westmead*

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*Menzies Institute for Medical Research, University of Tasmania*

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**Melissa Cantley**  
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# Giving patients with obesity the personalised support they need

**Contrave**  
(naltrexone HCl/bupropion HCl)  
8 mg/90 mg • Extended-Release Tablets

**LIVINGlite**  
support program



The Contrave® (naltrexone HCl/bupropion HCl) Nurse Support Program provides FREE access to a dedicated Nurse Advisor to every patient prescribed Contrave

Patients can access a FREE dedicated Nurse Support Program to assist with adherence to medication, and diet and lifestyle interventions



**Ongoing phone-based access** to a Nurse Advisor (Mon-Fri, 9am-5pm AEST)



**Personalised consultation** able to answer specific queries about Contrave and provide support on the patient's weight loss journey



Access to the **LivingLite® online patient hub** with additional tools, resources and education to encourage healthy habits and lifestyle changes



**Compliments the care** patients already receive from their doctor and pharmacist



REGISTERING YOUR PATIENTS TO THE CONTRAVE NURSE SUPPORT PROGRAM IS EASY



Follow the prompts on **MedicalDirector®**

OR



Enrol your patients directly at [www.livingliteprogram.com.au](http://www.livingliteprogram.com.au)

Curious about Contrave?  
Learn more at [contrave.com.au](http://contrave.com.au)

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

Please review full Product Information before prescribing.  
Product Information available [here](#).

**Minimum Product Information.** CONTRAVE® 8/90 (naltrexone hydrochloride and bupropion hydrochloride extended release tablets). **Indications:** CONTRAVE is indicated, as an adjunct to a reduced-calorie diet and increased physical activity, for the management of weight in adult patients ( $\geq 18$  years) with an initial Body Mass Index (BMI) of  $\geq 30$  kg/m<sup>2</sup> (obese) or  $\geq 27$  kg/m<sup>2</sup> to  $< 30$  kg/m<sup>2</sup> (overweight) in the presence of one or more weight-related co-morbidities (e.g., type 2 diabetes, dyslipidaemia, or controlled hypertension). Treatment with CONTRAVE should be discontinued after 16 weeks if patients have not lost at least 5% of their initial body weight. **Contraindications:** Hypersensitivity to bupropion, naltrexone or any of the excipients, uncontrolled hypertension, seizure disorder or a history of seizures, patients with a known central nervous system tumour, patients undergoing acute alcohol or benzodiazepine withdrawal, patients with a history of bipolar disorder, use of concomitant treatment containing bupropion or naltrexone, current or previous diagnosis of bulimia or anorexia nervosa, patients currently dependent on chronic opioids or opiate agonists, or patients in acute opiate withdrawal, pregnancy, patients with severe hepatic impairment, patients with end-stage renal failure, and in concomitant administration with monoamine oxidase inhibitors (MAOI). At least 14 days should elapse between discontinuation of MAOI and initiation of treatment with CONTRAVE. Starting CONTRAVE in a patient treated with reversible MAOIs is also contraindicated. **Precautions:** Safety and tolerability should be assessed at regular intervals. Safety and efficacy of CONTRAVE for longer than a year has not been established. Suicidal ideation has been reported in post marketing reports with CONTRAVE and patients should be supervised closely. There is a small increase in the risk of seizure. In patients requiring intermittent opiate treatment, CONTRAVE should be temporarily discontinued and lower doses of opioids may be needed. A patient should stop taking CONTRAVE and consult a doctor if experiencing any allergic symptoms during treatment. Hypertensive crisis has been reported in post marketing cases during the initial titration phase of CONTRAVE, and

it should be used with caution in those with controlled hypertension. Serotonin syndrome has been reported in post marketing cases when bupropion is co-administered with other serotonergic agents and in overdose so use CONTRAVE under careful observation in concomitant treatment with other serotonergic agents, particularly during treatment initiation and dose increases. Use with caution in those with predisposing factors that increase the likelihood of seizures, reduced renal clearance, underlying liver disease, history of mania, patients aged greater than 65, and when performing activities requiring mental alertness e.g. driving and operating machinery. **Interactions:** Contraindicated in use with MAOIs, drugs containing bupropion, chronic opioid use or opiate agonist therapy. CONTRAVE may increase the availability of other medicines metabolised by CYP2D6 substrate. Medicines metabolised by the CYP2B6 isozyme may interact with CONTRAVE. Use with caution with drugs that lower the seizure threshold and dopaminergic drugs. Avoid or minimise the use of alcohol. CONTRAVE may decrease plasma digoxin levels and digoxin levels may rise on discontinuation of CONTRAVE and the patient should be monitored for possible digoxin toxicity. **Adverse Reactions: More common:** Nausea, constipation, vomiting, **Common:** Decreased lymphocyte count, palpitations, tinnitus, vertigo, dry mouth, toothache, upper abdominal pain, feeling jittery, dizziness, tremor, dysgeusia, disturbance in attention, lethargy, hot flush, hyperhidrosis, pruritus, alopecia and hypertension. **Dosage and Administration:** Swallow tablets whole with water, and preferably with food. Dose should be escalated over a 4-week period from initiation. The recommended starting dose is 1 tablet in the morning for 1 week, increasing to 1 tablet in the morning and 1 at night in the second week, 2 tablets in the morning and 1 tablet at night in the third week. The maintenance dose from week 4 onward is 2 tablets in the morning and 2 at night. **Black Triangle Scheme:** This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at [www.tga.gov.au/reporting-problems](http://www.tga.gov.au/reporting-problems)

## ENDOCRINE SOCIETY OF AUSTRALIA (ESA)

### ESA OFFICE BEARERS 2021

<b>President</b>	Bu Beng Yeap	<b>Councillor</b>	Ada Cheung
<b>President Elect</b>	Ann McCormack	<b>Councillor</b>	Shane Hamblin
<b>Secretary</b>	Mathis Grossmann	<b>Councillor</b>	Diana Learoyd
<b>Treasurer</b>	Belinda A. Henry	<b>Councillor</b>	Emily Mackenzie
<b>Past President</b>	Timothy J. Cole	<b>Councillor</b>	Frances Milat

### PAST ESA OFFICE BEARERS 1958-2021

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
2012-14	P. Ebeling	H. Teede	T. Cole	W. Inder
2014-16	H. Teede	W. Inder	T. Cole	N. Hodyl
2016-18	W. Inder	T. Cole	M. Burt	N. Hodyl
2018-20	T. Cole	B. Yeap	M. Burt	B. Henry
2020-21	B. Yeap	A. McCormack	M. Grossmann	B. Henry

### SOCIETY & CONFERENCE SECRETARIAT

**Endocrine Society of Australia**  
145 Macquarie Street  
Sydney, NSW 2000  
ijohnson@endocrinesociety.org.au  
Contact person : Ivone Johnson  
www.endocrinesociety.org.au

**Conference Secretariat – ASN Events**  
Unit 9/397 Smith Street,  
Fitzroy VIC 3065  
Jim.f@asnevents.net.au  
Contact person: Jim Fawcett  
www.asn.events

### 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	1988 Axel Ulrich	2005 Richard Pestell
1965 Geoffrey Harris	1989 Hiroo Imura	2006 William Crowley
1973 Albert Renold	1990 Iain McIntyre	2007 Gerard Karsenty
1974 Paul Franchimont	1991 Eli Adashi	2008 Colin Ward
1975 William Odell	1992 Jan-Ake Gustafsson	2009 John Cidlowski
1976 John Landon	1993 Eberhard Nieschlag	2010 Stafford Lightman
1977 Hugh Niall	1994 Allen Spiegel	2011 Paul Stewart
1978 Samuel Yen	1995 Natalie Josso	2012 Lucilla Poston
1979 John Shine	1996 Gregory Mundy	2013 Matthew During
1980 Ronald Swerdloff	1997 M. Geoffrey Rosenfeld	2014 Sundeep Khosla
1981 Sidney Ingbar	1998 Ken Korach	2015 Richard Santen
1982 Jens Rehfeld	1999 Henry Burger	2016 Stephen Franks
1983 Philip Lowry	2000 Pierre Chambon	2017 Márta Korbonits
1984 Fernand Labrie	2001 Jack Martin	2018 Peter Fuller
1985 Michael Berridge	2002 George Chrousos	2019 Daniel Drucker
1986 Michael Thorner	2003 Derek LeRoith	2020 Mitchell Lazar
1987 Lynn Loriaux	2004 Bruce McEwen	2021 Wiebke Arlt

### 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	2004 Peter E Clayton	2013 Anthony Hollenberg
1995 William Bremner	2005 David Dunger	2014 John Wass
1996 Steven Lamberts	2006 Sadaf Farooqi	2015 Michael Tuttle
1997 George Brabant	2007 Robert J Smith	2016 Constantine Stratakis
1998 Simeon Taylor	2008 William F Young Jr	2017 Gerard Conway
1999 Christopher K Glass	2009 Karen Miller	2018 Susan Mandel
2001 Domenico Accilli	2010 Karel Pacak	2019 Angela Leung
2002 Paul Stewart	2011 Kathleen Hoeger	2020 *Not awarded
2003 Terry Davies	2012 Gudmundur Johannsson	2021 Mirjam Christ-Crain

### 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	2019 Susan Davis
2012 Gail Risbridger	2016 Wayne Tilley	2020 *Not awarded
2013 Geoffrey Tregear	2017 Patrick M Sexton	2021 David Handelsman
2014 Iain Clarke	2018 Rob McLachlan	

## 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	2019 Kelly Walton
2010 Peter Liu	2015 Lisa Moran	2020 Mitchell Lawrence
2011 Mathis Grossmann	2016 *Not awarded	2021 Anju Joham
2012 Emma Duncan	2017 Frances Milat	
2013 Zane Andrews	2018 Kirsty Walters	

## ESA NOVARTIS JUNIOR SCIENTIST AWARD

The Novartis Junior Scientist 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	1991 Marie-Christine Keightley & Helen Maclean	2005 Agnes Kovacic & Amy Au
1977 David Kennaway	1992 Fiona Young	2006 David Macintyre
1978 David Healy	1993 Emma Ball	2007 Marrianna Elston
1979 George Werther	1994 Vicki Clifton	2008 Sue Lau
1980 Rebecca Mason	1995 Michael Downes & Sylvia Lim-Tio	2009 Kenneth Ho
1981 Yvonne Hodgson	1996 John Walsh	2010 Lyndal Tacon
1982 David Hurley	1997 Bu Yeap	2011 Jun Yang
1983 Carolyn Scott	1998 Julie Joyner	2012 Patrick Candy
1984 David James	1999 Renea Jarred & Helena Teede	2013 Kevin Lee Tao-Kwang
1985 Guck Ooi	2000 Jeremy Smith	2014 Marianna Volpert
1986 Marie Ranson	2001 Stephen Heady	2015 Dilys TH Leung
1987 Lora Hutchinson	2002 Patrick McManamny	2016 Ashlee Clark
1988 Vasilios Papadopoulos	2003 Sophie Chan	2017 Patrick Thomas
1989 David Phillips	2004 Esme Hatchell	2018 Laura H Porter
1990 Sharon Gargosky		2019 Adam Hagg
		2020 Nicholas Choo

## ESA YOUNG INVESTIGATOR SCIENTIFIC ARTICLE AWARD

Previously known as the Servier Award, the ESA Young Investigator Scientific Article Award is awarded 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	2002 Susan Fanayan	2013 Jennifer Lo
1992 Peter Stanton	2003 Jenny Gunton	2014 Anthony Bird
1993 Janet Martin	2004 Peter Liu	2015 Christian Girgis
1994 Chen Chen	2005 Simon Chu	2016 Justin Chen
1995 Timothy Crowe	2006 Renea Taylor	2017 Jimmy Shen
1996 Jun-Ping Lui	2007 Kirsten McTavish	2018 Sabashini Ramchand
1997 Liza O'Donnell	2008 Belinda Henry	2019 Nandini Shankara Narayana
1998 Stephen Twigg	2009 Kristy Brown	2020 Angela Lee
1999 Dan Lee	2010 Zoe Hyde	2021 Adam Hagg (Basic Science) & Mark Mark Ng Tang Fui (Clinical)
2000 Fraser Rogerson	2011S tefan Bagheri-Fam	
2001 Karen Kroeger	2012 Priya Sumithran	

## 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	2010 Jeremy Hoang	2016 Mark Ng Tang Fui
2005 Carolyn Allan	2011 Lucia Gagliardi	2017 Michael Mond
2006 Jui Ho	2012 Caroline Jung	2018 le-Wen Sim
2007 Morton Burt	2013 Emily Gianatti	2019 Teresa Lam
2008 Ann McCormack	2014 Phillip Wong	2020 Emily Brooks & Rebecca Goldstein
2009 Paul Lee	2015 Ada Cheung	

### ESA PAUL LEE BEST ABSTRACT AWARD

2018 Warrick Inder  
2019 Jennifer Chen

2020 Nandini Shankara Narayana  
2021 Valentina Rodriguez Paris

### 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 Erosha 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 Kowner

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  
2018 Jasna Aleksova, Matti Gild, Emily Meyer  
2019 Sunita De Sousa, Hanh Nguyen, Jun Yang  
2020 \*Not awarded  
2021 \*Not awarded

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

2001 Karen Kroger, Elizabeth Nye  
2002 Aylin Hanyaloglu, Kylie Hewitt  
2003 Nicola Solomon, Carolyn Allan  
2004 Renea Jarred, Rachel Hill  
2005 Teresa Hickey, Agnes Kovacic  
2006 Rebecca Robker, Nichola Thompson  
2007 Sue Mei Lau, Ashwini Chand  
2008 Johanna Barclay, Ulla Simanainen, Kathryn Backholer  
2009 Kesha Rana, Stacey Jamieson, Kavitha Iyer, Vita Birzniece  
2010 Sarah To, Liza Phillips

2011 Jun Yang, Shirin Hussain  
2012 Lili Huang, Kara Britt  
2013 Anju Joham, Helen Barrett  
2014 Kathryn Hackman, Sarah Gastras  
2015 Amanda Rickard, Ying Wan  
2016 Ada Cheung, Sally Abell  
2017 Moe Thurzar, Rebecca Goldstein  
2018 Sophie Lee, Matti Gild, Hanh Nguyen  
2019 Sunita De Sousa, Eleanor Thong  
2020 \*Not awarded  
2021 \*Not awarded

### ESA ASIA/OCEANIA TRAVEL SUPPORT GRANTS

Several grants are offered to researchers from countries in the Asia-Oceania region to travel and present an abstract at The ESA Annual Scientific Meeting, to further their training and knowledge in Endocrinology.

2018 Arooj Fatima, Jinbo Hu, Udai Wijetunga  
2019 Anuradha Jayasuriya, Smitha Rao, Udai Wijetunga

2020 \*Not awarded  
2021 \*Not awarded

### ESA RESEARCH SEED GRANTS

Seed Grants of \$10,000 are for research in any area of endocrinology by a mid-career ESA member.

2018 Mitchell Lawrence, Kirsty Walters, Jun Yang  
2019 Morton Burt, Caroline Jung, Adam Rose, Aneta Stefanidis

2020 Ada Cheung, Luba Sominsky  
2021 Ann McCormack, Nicholas Russell, Varun Venkatesh, Diane Rebourcet

### ESA KEN WYNNE MEMORIAL POSTDOCTORAL RESEARCH AWARD



2013 Lisa Moran  
2014 Kristy Brown  
2015 Jun Yang  
2016 Kirsty Walters  
2017 Frances Milat  
2018 Kelly Walton  
2019 Ada Cheung

2020 \*Not Awarded  
2021 Aneta Stefanidis

## ESA POSTDOCTORAL AWARD

2009 Jeremy Smith  
2010 Sarah Spencer  
2012 Kelly Walton  
2013 Radhika Seimon  
2014 Lucia Gagliardi  
2015 Justin Chen & Stella Liong

2016 Ada Cheung & Jun Yang  
2017 Luba Sominsky & Jean Winter  
2018 Ada Cheung & Moe Thuzar  
2019 Rajini Sreenivasan & Sarah Lockie  
2020 Emily Brooks

## ESA RESEARCH HIGHER DEGREE SCHOLARSHIP

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

2015 Cherie Au and Dilys Leung  
2016 Dilys Leung  
2017 Angela Chen  
2018 Monica Kanki  
2019 Sabashini Ramchand  
2020 Amanda Seabrook

## RACP ENDOCRINE SOCIETY OF AUSTRALIA (ESA) RESEARCH ESTABLISHMENT FELLOWSHIP IN ENDOCRINOLOGY

2018 Mark Ng Tang Fui  
2019 Jasna Aleksova

2020 Helen Barret  
2021 Emily Brooks

## AWE / ESA AUSTRALIAN WOMEN IN ENDOCRINOLOGY (AWE) OUTSTANDING ABSTRACT AWARD

2013 Anju Joham, Helen Barrett  
2014 Kathryn Hackman, Sarah Gastras  
2015 Amanda Rickard, Ying Wan  
2016 Ada Cheung, Sally Abell

2017 Rebecca Goldstein, Moe Thuzar, Ann McCormack  
2018 Sophie Lee, Matti Gild, Hanh Nguyen  
2019 Swati Swati, Ada Cheung, Elena Tucker, Jean Winter  
2020 Jun Yang, Ebtihal Mustafa

## ESA HONORARY LIFE MEMBERS

Prof Leon Bach  
Dr Robert Baxter  
Dr Alan W. Blackshaw  
Dr Hal D. Bredahl  
Prof James B Brown  
Prof Henry G Burger  
Dr Robin A. Burston  
Prof Donald P Cameron  
Prof Christine Clarke  
Prof Iain Clarke  
Prof John P Coghlan  
Prof Alex Cohen  
Dr Ron I Cox  
Prof David Curnow  
Prof Susan Davis  
Prof David De Kretser  
Dr Ewan Downie  
Prof Creswell J Eastman AM  
Cliff W. Emmens  
Dr Ken A. Ferguson  
Prof Jock Findlay  
Prof Peter Fuller  
Prof John W Funder

Prof Richard D. Gordon  
Dr Ian B Hales  
Prof David Handelsman  
Dr Philip Harding  
Prof Basil Hetzel  
Dr Brian Hirschfeld  
Prof Ken Ho  
Bryan Hudson  
Dr Ivan G Jarrett  
Assoc Prof Stephen Judd  
Prof Richard G Larkins  
Prof Leslie Lazarus  
Dr Thomas B. Lynch  
Prof T John Martin  
Dr Len Martin  
Dr Frank I.R. Martin  
Dr Ian C.A. Martin  
Prof Ian R. McDonald  
Prof Rob McLachlan  
Dr Roger A. Melick  
Prof Solomon Posen  
Prof Marilyn B. Renfree  
Prof Gail P. Risbridger

Prof Terry J. Robinson  
Prof Ray Rodgers  
Prof Rodney Shearman  
Dr Evan Simpson  
Prof Alfred W Steinbeck  
Prof Jim Stockigt  
Prof Roderick F.A. Strang  
Prof Bronwyn Stuckey  
Prof Pincus Taft  
Dr Ian D. Thomas  
Prof Duncan J. Topliss  
Prof Prof Victor Trikojus  
Emeritus Prof John R Turtle  
Prof Robert Vines  
Dr Alan L. Wallace  
Prof Garry Warne  
Prof George Werther  
Prof Norman Wettenhall  
Prof F.H. Hales Wilson  
Prof Marelyn Wintour-Coghlan  
Dr Ken N. Wynne  
Prof Jeffrey Zajac

# norditropin<sup>®</sup> flexpro<sup>®</sup>

somatropin (rbe)



## is indicated for adults with severe GHD<sup>\*1</sup>

Designed with patients in mind

Flexible  
storage<sup>†</sup>

Store at room temperature (<25°C) for up to 21 days after first use<sup>1</sup>

Easy  
to use<sup>‡</sup>

<sup>‡</sup>Multi-dose, pre-filled pens with no mixing required<sup>1,2</sup>

Tailored  
dosing<sup>§</sup>

<sup>§</sup>Fine 0.025 mg increments closely tailor the daily dose to each patient<sup>1</sup>

GHD=growth hormone deficiency. <sup>\*</sup>As diagnosed in the insulin tolerance test for GHD and defined by peak growth hormone concentrations of <2.5 ng/mL.<sup>1</sup>

<sup>†</sup>All Norditropin<sup>®</sup> products must be refrigerated (between 2°C and 8°C) prior to use. While in use, the product may be stored for a maximum of 21 days below 25°C, alternatively stored for a maximum of 28 days in a refrigerator (between 2°C and 8°C).<sup>1</sup>

PBS Information: This product is listed on the PBS as a Section 100 item. Refer to PBS Schedule for full authority information.

Please review Product Information before prescribing. The Product Information is available from [www.novonordisk.com.au](http://www.novonordisk.com.au)

**Minimum Product Information – Norditropin<sup>®</sup> FlexPro<sup>®</sup> 5 mg, 10 mg and 15 mg, Norditropin<sup>®</sup> SimpleXx<sup>®</sup> 5 mg, 10 mg and 15 mg (Somatropin (rbe), Biosynthetic human growth hormone).**

**Indications:** *Children:* Treatment of growth failure: due to pituitary growth hormone deficiency (GHD); girls due to gonadal dysgenesis (Turner Syndrome); due to chronic renal insufficiency where a child's height is on or less than the twenty-fifth percentile and growth velocity is on or less than the twenty-fifth percentile for bone age; and severe growth failure due to intrauterine growth retardation (IUGR). *Adults:* Treatment of severe GHD. **Contraindications:** Children with closed epiphyses; patients with retarded growth due to any cause other than pituitary GHD unless specifically indicated; patients with known hypersensitivity to excipients. Not to be used in patients with: evidence of active malignant tumours (discontinue in case of recurrent tumour growth); proliferative or preproliferative diabetic retinopathy; Prader-Willi syndrome who are severely obese or have respiratory impairment; or in children with chronic renal disease where there has been an episode of rejection in the twelve months following transplantation (discontinue in case of a new acute rejection episode). Not to be initiated in patients with acute critical illness due to complications following open heart surgery or abdominal surgery, multiple accident trauma, or those with acute respiratory failure. **Precautions:** Please review precautions section in full PI. Treatment should be directed by specialists experienced in the diagnosis and management of growth hormone deficiency, Turner Syndrome, chronic renal disease, IUGR/SGA (Small for Gestational Age). Do not mix with other medicines. Patients with increased risk for diabetes mellitus should be followed. Very rare cases of benign intracranial hypertension reported; discontinuation may be required. In cases of severe/recurrent headache, visual symptoms, nausea and/or vomiting, a fundoscopy for papilloedema is recommended. In Turner syndrome, otological evaluation and monitoring of hand/feet growth recommended. Experience limited in GHDA patients treated >10yrs, and in geriatrics. *Use in pregnancy:* Category B1. *Use in lactation:* No studies conducted in nursing mothers and it is not known whether Norditropin is excreted in breast milk. Maximum recommended daily dose should not be exceeded. **Interactions:** Glucocorticoids, gonadal steroids, gonadotrophin, anabolic steroids, oestrogen and thyroid hormone. Somatropin may increase the clearance of compounds metabolised by cytochrome P450 isoenzymes. **Adverse Reactions:** *Paediatric:* uncommon side effects: benign intracranial hypertension; headache; seizure; motor problems; arthralgia; slipped epiphysis; scoliosis; kyphoscoliosis; oedema; nausea; skin rash; local skin reactions at injection site; lipatrophy. *Adults:* fluid retention with peripheral oedema are very common upon initiation. *Common:* Carpal tunnel syndrome (may require transient dose adjustment). Headache and paraesthesia, muscle/skeletal pain/stiffness; pain/joint inflammation; abnormal sensation; injection site reactions. Generalised hypersensitivity reactions have been reported post-marketing but are rare. **Dosage and Administration:** Dosage should be individualised. *Paediatric:* GHD: 25-35 g/kg/day, equal to 0.7-1.0 mg/m<sup>2</sup>/day; Turner Syndrome: 50 g/kg/day, equal to 1.4 mg/m<sup>2</sup>/day; SGA: 33-67 g/kg/day, equal to 1-2 mg/m<sup>2</sup>/day. *Adults:* Commence at a low dose of 0.15-0.3 mg/day and increase at monthly intervals based on clinical response. Do not use drug substance if it does not appear water-clear and colourless. Updated Nov 2013.

**References:** 1. Norditropin<sup>®</sup> FlexPro<sup>®</sup> Product Information. 2. Fuchs GS *et al.* *Clin Ther* 2009;31:2906-14.

**Novo Nordisk<sup>®</sup> Pharmaceuticals Pty Ltd** ABN 40 002 879 996. Level 10, 118 Mount Street, North Sydney NSW 2060. [www.novonordisk.com.au](http://www.novonordisk.com.au) FlexPro<sup>®</sup> and Norditropin<sup>®</sup> are registered trademarks owned by Novo Nordisk Health Care AG and the Apis bull logo is a registered trademark of Novo Nordisk A/S. ©2021 Novo Nordisk Healthcare AG, Zurich, Switzerland. AU21NP00023. SSW. NOR-002365-00. Date of preparation: August 2021.





## SOCIETY FOR REPRODUCTIVE BIOLOGY (SRB)

### SRB OFFICE BEARERS 2021

<b>President</b>	Moira O'Bryan	<b>Newsletter Secretary</b>	Mark Baker
<b>President Elect</b>	Brett Nixon	<b>Fellows &amp; Life Members and</b>	
<b>Secretary</b>	David Sharkey	<b>Plenary Lecture Secretary</b>	Shaun Roman
<b>Treasurer</b>	Jane Girling	<b>SRB Conference Secretary</b>	
<b>Membership</b>	Kylie Dunning	<b>&amp; RFD Liaison</b>	Geoffry De Iuliis
<b>Awards &amp; Sponsorship</b>	Fiona Brownfoot	<b>Agricultural Liaison</b>	Simon de Graaf
<b>Public Relations/Website</b>	Kelly Walton	<b>Exotic Species Liaison</b>	Kelsey Pool
<b>Communications</b>	Lisa Akison	<b>SRB ASM POC co-chair</b>	John Schjenken
<b>Public Officer</b>	Jeremy G. Thompson	<b>SRB ASM POC co-chair</b>	Andrew Pask
<b>ECR Representatives</b>	Dulama Richani & Jessica Dunleavy	<b>SRB ASM POC co-chair</b>	Tu'uhevaha Kaitu'u-Lino
<b>Student Representatives</b>	Meaghan Griffiths & Shenae Cafe	<b>SRB ASM LOC Chair</b>	Jane Fenelon
		<b>SRB ASM LOC</b>	Ashley Hutchinson

### PAST SRB OFFICE BEARERS 1969 - 2021

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

2004-05	LA Salamonsen	KL Loveland	C Gargett
2005-06	LA Salamonsen	KL Loveland	C Gargett
2006-07	M Holland	SA Robertson	C Gargett
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
2017-18	C O'Neill	J Smith	MP Green
2018-19	M O'Bryan	J Girling	MP Green
2019-20	M O'Bryan	J Girling	DJ Sharkey
2020-21	M O'Bryan	J Girling	DJ Sharkey

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## SPONSORS, AWARDS AND LECTURERS OF THE SOCIETY FOR REPRODUCTIVE BIOLOGY

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### SRB GODING / FOUNDERS' ORATION AND MEDAL LECTURER

1974 IA Cumming	1990 RM Moor	2006 M Renfree
1975 W Hansel	1991 CR Austin	2007 M Matzuk
1976 DT Baird	1992 JK Findlay	2008 J Robinson
1977 TD Glover	1993 GC Liggins	2009 LA Salamonsen
1978 CH Tyndale-Biscoe	1994 I Huhtaniemi	2010 RA Reijo-Pera
1979 GMH Thwaites	1995 RF Seamark	2011 C O'Neill
1980 KP McNatty	1996 No Lecture	2012 J Carroll
1981 BK Follett	1997 F Bronson	2013 S Robertson
1982 J Wilson	1998 DM de Kretser	2014 R Norman
1983 BM Bindon	1999 I Wilmut	2015 B Capel
1984 A Bellvé	2000 R Short	2016 J Thompson
1985 BP Setchell	2001 D Albertini	2017 T Woodruff
1986 W Hansel	2002 AO Trounson	2018 E McLaughlin
1987 HG Burger	2003 T Fleming	2019 L Giudice
1988 FW Bazer	2004 RJ Aitken	2020-21 N Gemmell
1989 GD Thorburn	2005 J Eppig	

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

2006 WW Thatcher	2011 R Rodgers	2016 J Penninger
2007 I Clarke	2012 K Jones	2017 V Harley
2008 H Fraser	2013 S Fisher	2018 F DeMayo
2009 F Gandolfi	2014 G Schatten	2019 B Nixon
2010 D Handelsman	2015 M O'Bryan	2020-21 B Murphy

### **SRB JSA /DAVID HEALY NEW INVESTIGATOR AWARD**

1981 PJ Lutjen	1995 I van Wezel	2009 AS Care
1982 RJ Rodgers & CB Gow	1996 S Robinson	2010 P Nichols
1983 SP Flaherty	1997 MJ Jasper	2011 A Reid
1984 C O'Neill	1998 M Panteleon	2012 Y R Gao
1985 BJ Waddell	1999 E Whiteside	2013 A Winship
1986 LJ Wilton	2000 CE Gargett	2014 J Sutherland
1987 A Stojanoff	2001 WV Ingman	2015 E Green
1988 MB Harvey	2002 J Smith	2016 J Dunleavy
1989 AH Torney	2003 AN Sferruzzi-Perri	2017 Q-N Nguyen
1990 H Massa	2004 K Webster	2018 J Walters
1991 DK Gardner	2005 T Hickey	2019 A Gaikwad
1992 SW Walkden-Brown	2006 K Walters	2020 M Bertram
1993 CM Markey	2007 C Hogarth	
1994 MJ Hötzel, S McDougall	2008 G Wilson	

### **SRB ROBINSON RESEARCH INSTITUTE AWARD FOR RESEARCH EXCELLENCE**

2006 M O'Bryan	2012 B Nixon	2018 T Kaitu'u-Lino
2007 E McLaughlin	2013 J St. John	2019 K Walters
2008 SA Robertson	2014 R Robker	2020 *Not Awarded
2009 RB Gilchrist	2015 M Baker	2021 N Hannan
2010 E Dimitriadis	2016 W Ingman	
2011 C Gargett	2017 MP Green	

### **SRB NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD**

2011 J Smith, S Tong	2015 K Walters	2019 A Winship & K Dunning
2012 K Hutt	2016 P Tanwar	2020 E Bromfield
2013 T Kaitu'u-Lino	2017 K Walton	
2014 D Jamsai	2018 AS Care	

### **SSR-SRB PRESIDENTS' AWARD FOR OUTSTANDING MID-CAREER RESEARCHER**

2018 MP Green	2019 T Kaitu'u-Lino
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### **SRB MLA NEW SCIENTIST AWARD (DISCONTINUED 2016)**

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

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

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

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

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

**HUDSON INSTITUTE OF MEDICAL RESEARCH CENTRE FOR REPRODUCTIVE HEALTH “AWARD FOR EXCELLENCE” FOR BEST ECR POSTER**

2012 SY Chai	2015 N Nicolas	2018 AC Kleinert
2013 K Palmer	2016 A Winship	2019 D Skerrett-Byrne
2014 J Stringer	2017 H Groome	2020 *Not Awarded

**HUDSON INSTITUTE OF MEDICAL RESEARCH CENTRE FOR REPRODUCTIVE HEALTH “AWARD FOR EXCELLENCE” FOR BEST MCR POSTER**

2012 T Kaitu’u-Lino	2015 Z Gibb, L Wu	2018 J Stringer
2013 SH Liew	2016 K Redgrove	2019 L Akison
2014 E Menkhorst	2017 L Lindsay	2020 *Not Awarded

**THE OOZOA STUDENT AWARD (Discontinued 2020)**

2008 M Dun	2012 G Kerr	2016 L Prokopuk
2009 H Bakos	2013 T Lord	2017 B Mihalas
2010 A Sobinoff	2014 J Olcron	2018 Q-N Nguyen
2011 L Frank	2015 D Listijono	2019 J Greaney

**ART LAB SOLUTIONS GAMETE AND EMBRYO AWARD**

2020 T Tan & U Sarma

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

2010 C Viall	2014 S Heng	2018 Y Wang
2011 G Kafer	2015 R Crew	2019 S Delforce
2012 K Palmer	2016 J Kalisch-Smith	2020 M Griffiths
2013 F Brownfoot	2017 A Arthurs	

**RFD-SRB PUBLICATION OF THE YEAR AWARD**

2014 SJ Holdsworth-Carson et al. (J Girling)	2018 A Winship et al. (A Winship)
2015 SL Wong et al. (ML McDowall)	2019 A Pask, M Green et al. (A Pask)
2016 J Haverfield et al. (SJ Meacham)	2020 V Atashgaran (W Ingman)
2017 K Walters et al. (K Walters)	

**SRB TJ ROBINSON AWARD (4 YEAR)**

2002 CG Grupen	2010 T Leahy	2020 J Rickard
2006 KM Morton	2016 T Keeley	

**SRB BRIAN SETCHELL VISITING LECTURER AWARD**

2014 D Russell	2018 N Hannan (May), S de Graaf (Nov)
2015 P Western	2019 A Pask (May), P Murthi (Nov)
2016 K Walters (May), J Girling (Nov)	2020 *Not Awarded
2017 C Grupen (May), K Pringle (Nov)	

**SRB ECR COLLABORATIVE RESEARCH TRAVEL AWARD**

2012 K Pringle & J McGuane	2017 J Sutherland & K Dunning, F Brownfoot & S Delforce
2013 L Wu & WS Yuen, K Webster & K Diener	2018 A Swinbourne & T Keeley
2014 D Ireland & E Menkhorst, B Menzies & J Schjenken	2019 AS Care & A Winship
2015 H Brown & S Buckberry, L Akison & J Liew	2020 *Not Awarded
2016 S Reegan & S Mukherjee, M Pankhurst & R Kelley	



## Find out more about HSD Community Access for Somatuline® Autogel® (lanreotide)<sup>1</sup>

In our current environment of social distancing, Community Access prescribing may offer greater convenience through increased accessibility for appropriate Somatuline® Autogel® patients.<sup>2</sup> With a Community Access prescription, patients are able to obtain their Somatuline® Autogel® from their community pharmacy<sup>2</sup>, potentially avoiding hospital visits and reducing their need to travel.

### Community Access Prescribing for Somatuline® Autogel®<sup>2</sup>

The **only** SSA in Australia, in a ready-to-use, pre-filled syringe.<sup>3,4</sup>

Access resources to support self/  
carer injection with Somatuline®  
Autogel® (lanreotide)



Access our online interactive tool with the PBS codes and clinical criteria for each indication and prescription type, including Community Access<sup>1</sup>:

#### PBS prescribing codes

Access Somatuline® Autogel® (lanreotide) 120mg PBS Streamlined Authority Codes.

- Select the indication:  Non-functional gastroenteropancreatic neuroendocrine tumour (GEP-NET)  
 Functional carcinoid tumour  
 Acromegaly

- Select type of prescription:  Public Hospital  Private Hospital  Community Access

Results: Streamlined Code and relevant clinical criteria

For information and resources including a video on how to inject Somatuline® Autogel® visit [www.somatuline.com.au](http://www.somatuline.com.au)

**PBS Information:** Authority required (Streamlined). This product is a highly specialised drug listed on the PBS as a section 100 item. Refer to the PBS schedule for full authority information.

Before prescribing please refer to full Product Information which is available from Ipsen Medical Information. Ph: 1800 317 033 or from <http://www.guildlink.com.au/gc/ws/ipsen/pi.cfm?product=ispstatgi>

**Abbreviations:** HSD: Highly Specialised Drugs, PBS: Pharmaceutical Benefits Scheme, SSA: Somatostatin Analogue.

**References:** 1. Australian Government Department of Health, The Pharmaceutical Benefits Scheme (PBS): Highly Specialised Drugs Program (Community Access) <https://www.pbs.gov.au/browse/section100-ca?initial=l> [Accessed September 2021]. 2. Australian Government, Services Australia, [www.servicesaustralia.gov.au/organisations/health-professionals/services/medicare/highly-specialised-drugs/community-access/community-access-arrangements#a2](http://www.servicesaustralia.gov.au/organisations/health-professionals/services/medicare/highly-specialised-drugs/community-access/community-access-arrangements#a2) [Accessed September 2021]. 3. Somatuline® Autogel® Approved Product Information. 4. Australian Government Department of Health, The Pharmaceutical Benefits Scheme (PBS): Browse by Body System. Available at: <https://www.pbs.gov.au/browse/body-system?depth=4&codes=h01cb#h01cb> [Accessed September 2021].

For further information about Somatuline® Autogel® contact Ipsen Pty Ltd: T (03) 8544 8100 F (03) 9562 5152 E [info@ipsen.com.au](mailto:info@ipsen.com.au)  
Ipsen Pty Ltd, Level 2, Building 4, Brandon Office Park, 540 Springvale Road, Glen Waverley, VIC, 3150 Australia.  
ABN 47 095 036 909. Somatuline® Autogel® is a registered trade mark. Date of preparation: September 2021. SOM-AU-000954

**ANZBMS OFFICE BEARERS 2021**

<b>President</b>	Natalie Sims	<b>Past President</b>	Peter Croucher
<b>President Elect</b>	Mark Forwood	<b>Councillors</b>	Mark Cooper, Jillian Cornish, Rachel Davey, Gustavo Duque & Allison Pettit
<b>Secretary</b>	Paul Anderson		
<b>Treasurer</b>	Nathan Pavlos		

**PAST ANZBMS OFFICE BEARERS 1988-2021**

<b>YEAR</b>	<b>PRESIDENT</b>	<b>VICE PRESIDENT PRESIDENT ELECT</b>	<b>SECRETARY</b>	<b>TREASURER</b>	<b>COUNCILLORS</b>
1990 - Steering Group	T.J.Martin		M.Hooper		A.Need, R.Prince, J.Eisman, I.Reid, K.Ibbertson, D.Fraser, P.Sambrook, E.Seeman
1991-93 - Inaugural Council	T.J.Martin		M.Hooper	M.Hooper	J.Eisman, A.Goulding, D.Perry-Keen, J.Wark, A.Need, N.Kent
1993-95	J.Eisman	I.Reid	N.Kent	J.Wark	P.Sambrook, A.Need, R.Prince, D.Perry-Keene, E.Seeman
1995-97	I.Reid	N.Kent	J.Moseley	P.Ebeling	P.Sambrook, A.Need, R.Prince, D.Perry-Keene
1997-99	N.Kent	P.Ebeling	J.Moseley	P.Ebeling	R.Prince, I.Reid, M.Hooper, H.Morris, M.Forwood
1999-01	P.Ebeling	M.Hooper	J.Cornish	M.Forwood	J.Moseley, H.Morris, E.Mackie, M.Zheng
2001-03	M.Hooper	E.Seeman	J.Cornish	M.Forwood	R.Mason, R.Price, D.Findlay, G.Nicholson
2003-05	E.Seeman	J.Cornish	D.Findlay	M.Forwood	R.Mason, R.Price, G.Nicholson, P.Sambrook
2005-07	J. Cornish	P. Sambrook	D. Findlay	R. Price	R. Mason, G. Nicholson, P. Nash, M. Gillespie
2007-09	P. Sambrook	R. Mason	M. Gillespie	R. Price	P. Nash, N. Fazzalari, M. Kotowicz, T. Cundy
2009-11	R. Mason	M. Gillespie	N. Fazzalari	R. Price	P. Sambrook, N. Sims, M. Seibel, G. Thomas, N. Gilchrist
2011-13	M.Gillespie	M. Seibel	G. Atkins	G. Thomas	N. Sims, M. Bolland, C. Inderjeeth, N. Pocock, R. Mason
2013-15	M. Seibel	E. Duncan	G. Atkins	G. Thomas	N. Sims, M. Gillespie, N. Pocock, N. Pavlos, E. Dennison
2015-17	E. Duncan	P. Croucher	P. Anderson	N. Pavlos	R. Daley, R Buchbinder, N. Pocock, A. Pettit, E. Dennison
2017-19	P. Crouch	N. Sims	P. Anderson	N. Pavlos	A. Pettit, R. Daly, M. Cooper, J. Cornish, M. Forwood, E. Duncan
2019-21	N. Sims	M. Forwood	P. Anderson	N. Pavlos	A. Pettit, R. Davey, M. Cooper, J. Cornish, G. Duque, P. Croucher

**SOCIETY & CONFERENCE SECRETARIAT**

**Australian & New Zealand Bone and Mineral Society**  
 145 Macquarie Street  
 Sydney, NSW 2000, Australia  
 ijohnson@anzbms.org.au  
 Contact person: Ivone Johnson  
 www.anzbms.org.au

**Conference Secretariat – ASN Events**  
 Unit 9/397 Smith Street,  
 Fitzroy VIC 3065  
 Jim.f@asnevents.net.au  
 Contact person: Jim Fawcett  
 www.asnevents.com.au

**ANZBMS AWARD SPONSOR**



**ROGER MELICK YOUNG INVESTIGATOR AWARD**



This award is presented to commemorate the contribution of Dr Roger Aziz Melick to endocrinology and student education. Roger Melick died in November 1986 after a long battle with cancer. He trained in endocrinology with Fuller Albright, in Boston, and joined The Royal Melbourne Hospital as the third member of the foundation Department of Medicine. He was appointed Dean of the Clinical School in April 1979 and he was forced to retire because of his illness during 1986. Roger Melick was particularly known for his kindness, consideration and empathy for both patients and students. The prize is awarded annually to young members of the Society working towards a higher degree (including FRACP).

- 1996 Vicky Kartsogiannis
- 1997 Linda Crofts
- 1998 Janelle Barry
- 1999 Liza-Jane Raggatt
- 2000 Sandra Iuliano-Burns & Nathan Pavlos
- 2001 David Good
- 2002 Kun Zhu
- 2003 Agatha Labrinidis & Xiaofang Wang
- 2004 Susan Allison & Kirk Ho Man Yip
- 2005 James Doecke
- 2006 Yosuke Kawasaki
- 2007 Stella Foley & Garry Williams
- 2008 Jonathan Gooi

- 2009 Nicola Lee
- 2010 Irene Zinonos
- 2011 Chiaming Fan
- 2012 Farzin Takyar & Audrey Chan
- 2013 Asiri Wijenayaka
- 2014 Hua Ying & Irina Kulina
- 2015 Niloufar Ansari
- 2016 Christina Vrahnas
- 2017 Mahmoud Bakr
- 2018 Jun Li
- 2019 Amy Harding
- 2020 James Smith

**CHRISTOPHER AND MARGIE NORDIN YOUNG INVESTIGATOR POSTER AWARD**



This Award is named in honour of the outstanding and major clinical investigations into disorders of bone and mineral metabolism made by Professor Christopher Nordin and his contributions to the ANZBMS. Professor B.E Christopher Nordin was a senior specialist at the Institute of Medical and Veterinary Science in Adelaide, and the man credited with drawing the medical community's attention back to the link between calcium deficiency and osteoporosis (brittle bones).

- 1997 Anne Nelson & Hidenori Murata
- 1998 Marianne Holzherr
- 1999 Tanya Uebergang
- 2000 Josef Kaplan
- 2001 Rebecca Jackson
- 2002 Nathan Pavlos
- 2003 Nicole Walsh & Rouha Granfar
- 2004 Laura Gregory & Mark Bolland
- 2005 Mark Bolland & Catherine Wang
- 2006 Andrew Hattam & Estabelle Ang
- 2007 Taksum Cheng
- 2008 Hasnawati Saleh

- 2009 Ee-Cheng Khor
- 2010 Kylie Alexander
- 2011 Shek Man Chim
- 2012 Alvin Ng & Marie-Luise Wille
- 2013 Yu Wen Su
- 2014 Masato Koike
- 2015 Dzenita Muratovic – Clinical & Scott Youlden – Basic
- 2016 Audrey Chan
- 2017 Scott Youlden
- 2018 Alexander Rodriguez
- 2019 Amy Ribet
- 2020 Ruby Oberin

## CHRISTINE AND T JACK MARTIN RESEARCH TRAVEL GRANT



This grant is offered by the ANZBMS in memory of Christine Martin and to honour the outstanding and major scientific contributions of Professor T Jack Martin to bone and mineral research and his contributions to associates and trainees in teaching, research, and administration.

2002 Catherine Middleton-Hardie  
2003 Vicky Kartsogiannis  
2004 Kerrie Sanders  
2005 Susan Allison  
2006 Mark Forwood  
2007 Brya Matthews  
2008 Roger Zebaze  
2009 Bich Tran  
2010 Garry Williams  
2011 Julie Quach

2012 Ashika Chhana  
2013 Yohann Bala  
2014 Michelle McDonald  
2015 Christina Vrahnas  
2016 Audrey Chan  
2017 Alexander Rodriguez  
2018 Thao Ho-Le  
2019 Sabashini Ramchand  
2020 \*Not Awarded  
2021 \*Not Awarded

## ANZBMS BONE HEALTH FOUNDATION GRANT 2021

2021 Fran Milat, Michelle McDonald

## AMGEN / ANZBMS OUTSTANDING ABSTRACT AWARD

The Council of ANZBMS wishes to recognise the high standard of bone and mineral research presented at the Annual Scientific Meeting. The Program Organising Committee will award a prize to the basic and clinical abstracts receiving the highest scores.

2003 Rob Will, Amanda Devine  
2004 Roger Zebaze  
2004 Christine Rodda  
2005 Markus Seibel, Julian Quinn  
2006 Yosuke Kawasaki, Julie Kuliwaba, Stella Foley, Dana Bliuc, Jonathan Gooi, Hugh Zhang  
2007 Colin Dunstan, Richard Prince, Maria Chiu, Natalie Sims, Paul Baldock, Ian Parkinson, Hong Zhou  
2008 Robert Kalak, Andrew Grey  
2009 Vicky Kartsogiannis, Nguyen Nguyen  
2010 Markus Seibel, Emma Walker, Iris Wong, Sarah Brennan, Jasreen Kular, Markus Seibel  
2011 Ian Reid, Asiri Wijenayaka  
2012 Ego Seeman, Rachelle Johnson  
2013 Peter Ebeling, Rossana Nogueira, Simon Junankar, Narelle McGregor, Jinwen Tu

2014 Allison Pettit, Paul Baldock, Jinwen Tu, Roger Zebaze, Kirtan Gandaz  
2015 Michelle McDonald, Allison Pettit, Audrey Chan, Le Phong Thao Ho, Ayano Nakayama  
2016 Nicola Lee, Steven Watson, Emma Walker, Natalie Hyde, Michelle McDonald  
2017 Victoria D Leitch, Emma M Wade, Michelle M McDonald, Ego Seeman  
2018 Ian Reid, Nathan Pavlos  
2019 Kai Chen, Robin Daly  
2020 Sandra Iuliano, Peter Ebeling, Audrey Chan, Victoria Leitch, Tsuyoshi Isojima  
2021 Alexander Rodriguez, Albert Kim, Ryan Chai, Alexander Corr, Dana Bliuc

## ANZBMS CLINICAL RESEARCH EXCELLENCE AWARD

MSD, through the Merck Research Labs have a long history in bone research and continue to achieve clinical innovations in this field. While the scientists at Merck are dedicated to exploring new ways to address health problems, they also recognize that the best scientific discoveries often emerge from collaboration with clinical researchers outside Merck laboratories. This award is offered to recognise and support clinicians in or within 10 years of postgraduate training who are contributing to clinical research in the field of bone-related disorder.

2012 Belal Khan  
2013 Syndia Lazarus  
2014 Masakazu Kogawa  
2015 Hanh Nguyen

2016 Thach Tran  
2017 Weiwen Chen  
2018 Jasna Aleksova  
2019 Alexander Rodriguez



### KAYE IBBERTSON AWARD ON METABOLIC BONE DISEASE



This Award is named in honour of the outstanding career and major investigations into skeletal disorders made by Professor Kaye Ibbertson, and his contributions to the ANZBMS.

- |                          |                                      |
|--------------------------|--------------------------------------|
| 2005 Roger Zebaze        | 2013 Tara Brennan-Speranza           |
| 2006 Julie Pasco         | 2014 Nicole Yu                       |
| 2007 Tania Winzenberg    | 2015 Joshua Lewis & Rachelle Johnson |
| 2008 Paul Baldock        | 2016 Michelle McDonald               |
| 2009 Mark Bolland        | 2017 Feitong Wu                      |
| 2010 Kun Zhu             | 2018 Dawn Aitken                     |
| 2011 Susannah O'Sullivan | 2019 Fran Milat                      |
| 2012 Emma Duncan         | 2020 David Scott                     |

### SOL POSEN RESEARCH AWARD



This Award is named in honour of Professor Sol Posen who was one of the pioneers in the field of bone and mineral endocrinology in this country. Sol Posen's contributions span the range from basic biochemistry – his citation classic in Clinical Chemistry described the first means of distinguishing alkaline phosphatase of bone origin – to clinical studies in metabolic bone disease, including Paget's disease, osteoporosis, hyperparathyroidism and tumour-induced osteomalacia. He attended meetings and journal clubs, where his presence was marked, as ever, by his propensity to ask incisive questions.

- |                      |                    |
|----------------------|--------------------|
| 2006 Nathan Pavlos   | 2014 Heath McGowan |
| 2007 Aaron McDonald  | 2015 Dana Bliuc    |
| 2008 Haotian Feng    | 2016 Paul Lee      |
| 2009 Ming-Kang Chang | 2017 Thao P. Ho-Le |
| 2010 Tak Sum Cheng   | 2018 Nicola Lee    |
| 2011 Kylie Alexander | 2019 Kai Chen      |
| 2012 Julie Quach     | 2020 Jungai Gao    |
| 2013 Farzin M Takyar |                    |

### PHILIP SAMBROOK AWARD



The Professor Philip Sambrook Award is presented annually to an outstanding early career researcher to honour the major clinical and scientific contributions by Professor Philip Sambrook to the field of rheumatology and osteoporosis. Successful applicants must be passionate about bone research, results driven and committed to giving back to the community.

- |                           |                         |
|---------------------------|-------------------------|
| 2012 Gustavo Duque        | 2017 Jansa Aleksova     |
| 2013 Emma Duncan          | 2018 Feitong Wu         |
| 2014 Kirtan Ganda         | 2019 Sabashini Ramchand |
| 2015 Sharon Brennan-Olsen | 2020 *Not Awarded       |
| 2016 Jinwen Tu            |                         |

### ANZBMS INTERNATIONAL TRAVEL AWARD

This award is offered by the ANZBMS to support travel to attend the IBMS Herbert Fleisch Workshop.

The objective of this workshop is to provide a Gordon-conference style forum for students, post-docs and early stage principal investigators to present work in progress, discuss thoroughly and network with peers, and get constructive feedback from experienced senior scientists.

- 2014 Tara Brennan-Speranza, Ashika Channa, Christina Vrahnas  
2015 Campbell Macgregor, Megan Thomas, Scott Youtlen  
2018 Babtunde Ayodele, Dzenita Muratovic

### **ANZBMS CAREER ACHIEVEMENT AWARD**

This esteem award recognises outstanding and major scientific or clinical contributions, and excellence in teaching and service to and within the bone and mineral field.

The award will be widely publicised and presented annually during the society's Annual Scientific Meeting. The awardee will receive free registration to the Annual Scientific Meeting and invitations to the annual and the president's dinner the year the award is received.

2014 Jillian Cornish, Ego Seeman  
2015 Howard Morris  
2016 Jack Martin

2018 John Eisman  
2019 Ian Reid

### **ANZBMS MID CAREER GAP FELLOWSHIP**

In recent years, funding for mid-career researchers has become increasingly difficult to obtain, jeopardising the future career of many of our colleagues in bone and mineral research. The ANZBMS has therefore created a new Fellowship Award with the intention to bridge shortfalls in salary funding for outstanding mid-career scientists.

2016 Allison Pettit  
2017 Nicki Lee & Rachel Davey

2018 Dana Bliuc

### **ANZBMS HIGHEST RATED STUDENT ABSTRACT AWARD**

The prize, of a single free registration, will be awarded to the student first author of the abstract that receives the highest score from the scoring committee.

2017 Junjie Gao  
2018 Marija Simic

2019 Kotaro Tanimoto  
2020 Lena Batoon

### **ANZBMS LIFE MEMBERS**

Professor Henry Kaye Ibbertson (deceased)  
Associate Professor Jane Moseley  
Professor B.E.C Nordin (deceased)  
Dr Solomon Posen (deceased)  
Professor Thomas J. Martin

Dr Donald Gutteridge  
Dr Ailsa Goulding  
Associate Professor Michael Hooper  
Professor John Eisman  
Professor Ego Seeman

# Give patients with Growth Hormone Deficiency peace of mind for the long term<sup>#1-4</sup>

## Offer your adult patients with GHD the benefits of GH replacement therapy with Genotropin:

- Results from baseline to 12 months (n=163)<sup>2</sup>
  - Increased lean body mass (p<0.001)
  - Reduced total skin fold thickness (p=0.003)
  - Decreased LDL-cholesterol (p=0.019)
- 25 years clinical use in >16000 adults<sup>4</sup>

**PBS Information:** Authority required. Refer to PBS Schedule for full authority information.

BEFORE PRESCRIBING PLEASE REVIEW FULL PRODUCT INFORMATION AVAILABLE FROM THE VIRTUAL TRADE DISPLAY.

**Abbreviations:** GHD, growth hormone deficiency

**References:** 1. GENOTROPIN<sup>®</sup> Approved Product Information. 2. Cuneo RC, et al. *J Clin Endocrinol Metab* 1998; 83(1): 107–16. 3. Allen DB et al. *Eur J Endocrinol* 2015; 174(2): PI–P9. 4. Pfizer International Metabolic Database (KIMS). Available at <https://medicaloutcomes.pfizer.com/kims>. Last accessed March 2021.

**ESA YOUNG INVESTIGATOR SCIENTIFIC ARTICLE  
AWARD Winner (Basic Science)**



**ADAM HAGG**  
University of Melbourne, Australia

**ESA YOUNG INVESTIGATOR SCIENTIFIC ARTICLE  
AWARD Winner (Clinical)**



**MARK NG TANG FUI**  
Austin Health, Australia

**ESA PAUL LEE BEST ABSTRACT AWARD**



**VALENTINA RODRIGUEZ PARIS**  
University of New South Wales, Australia

**ESA KEN WYNNE MEMORIAL POSTDOCTORAL  
RESEARCH AWARD WINNER**



**ANETA STEFANIDIS**  
Monash University, Australia

**ESA MID-CAREER AWARD WINNER**



**ANJU JOHAM**  
Monash Health, Australia

**ESA SENIOR PLENARY AWARD WINNER**



**DAVID HANDELSMAN**  
Anzac Research Institute, Concord  
Hospital, & University of Sydney, Australia

**NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD FINALIST**



**FIONA BROWNFOOT**  
University of Melbourne, Australia



**NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD FINALIST**



**EMILY BRYAN**  
Queensland University of Technology, Australia

**NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD FINALIST**



**REZA NOSRATI**  
Monash University, Australia



**NEWCASTLE REPRODUCTION EMERGING RESEARCH LEADER AWARD FINALIST**



**JESSICA STRINGER**  
Monash University, Australia

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



**NATALIE HANNAN**  
University of Melbourne, Australia

**SRB MERCY PERINATAL MID-CAREER WOMEN'S HEALTH MEDAL PRESENTER**



**PRADEEP TANWAR**  
University of Newcastle, Australia



**SRB SRF EXCHANGE LECTURER**



**GILLIAN JOHNSON**  
King's College London, UK

**SRB SRF EXCHANGE LECTURER**



**JORGE LOPEZ-TELLO**  
University of Cambridge, UK

**SRB SSR EXCHANGE LECTURER**



**AILEEN KEATING**  
Iowa State University, USA



**AMGEN-ANZBMS OUTSTANDING  
ABSTRACT AWARD FINALISTS**



**DANA BLIUC**  
Garvan Institute of Medical  
Research, Australia

**AMGEN-ANZBMS OUTSTANDING  
ABSTRACT AWARD FINALISTS**



**RYAN CHAI**  
Garvan Institute of  
Medical Research, Australia

**AMGEN-ANZBMS OUTSTANDING  
ABSTRACT AWARD FINALISTS**



**ALEXANDER CORR**  
Garvan Institute of  
Medical Research, Australia

**AMGEN-ANZBMS OUTSTANDING  
ABSTRACT AWARD FINALISTS**



**ALBERT KIM**  
Garvan Institute of  
Medical Research, Australia

**AMGEN-ANZBMS OUTSTANDING  
ABSTRACT AWARD FINALISTS**



**ALEXANDER RODRIGUEZ**  
Monash University, Australia



**ESA-SRB JOINT PLENARY SPEAKER**



**PROF SARAH KIMMINS**  
Mcgill University, Canada

**ESA HARRISON LECTURER**



**PROF WIEBKE ARLT**  
University of Birmingham, United Kingdom

**ESA TAFT LECTURER**



**PROF MIRJAM CHRIST-CRAIN**  
University Hospital of Basel, Switzerland

**SRB PRESIDENT'S LECTURER**



**PROF BRUCE MURPHY**  
Universite De Montreal, Canada

**SRB FOUNDERS' ORATION AND MEDAL LECTURER**



**PROF NEIL GEMMELL**  
University of Otago, New Zealand

**ANZBMS PLENARY SPEAKER**



**PROF BJÖRN BUSSE**  
University Medical Center Hamburg-  
Eppendorf, Germany

**ANZBMS PLENARY SPEAKER**



**PROF MARJOLEIN VAN DER MEULEN**  
Cornell University, United States of  
America

## ESA-SRB-ANZBMS SYMPOSIA SPEAKERS

---

**A/Prof Dawn Aitken**

*Menzies Institute for Medical Research, University of Tasmania, Australia*

**Dr Lisa Akison**

*University Of Queensland, Australia*

**Prof Zane Andrews**

*Monash University, Australia*

**Prof Louise Burrell**

*University of Melbourne, Australia*

**Dr Alison Care**

*University of Adelaide, Australia*

**Prof Jackie Center**

*Garvan Institute of Medical Research and St Vincent's Hospital, Australia*

**Dr Audrey Chan**

*The University of Melbourne, Australia*

**Dr Weiwen Chen**

*St Vincent's Hospital, Australia*

**Dr Ada Cheung**

*Austin Health, Australia*

**Prof Roderick Clifton-Bligh**

*Royal North Shore Hospital, Australia*

**Prof Mark Cooper**

*University of Sydney, Australia*

**Dr Angela Cumberland**

*RMIT University, Australia*

**A/Prof Rachel Davey**

*University of Melbourne, Austin Health, Australia*

**Dr Elodie Desroziere**

*University of Otago, New Zealand*

**Dr Damian Dowling**

*Monash University, Australia*

**Dr Kylie Dunning**

*The University of Adelaide, Australia*

**Dr Jane Fenelon**

*University of Melbourne, Australia*

**Prof Josephine Forbes**

*Mater Research Institute - The University of Queensland, Australia*

**Prof Robert Gorkin III**

*University of Wollongong, Australia*

**Prof Mathis Grossmann**

*University of Melbourne, Australia*

**Prof David Handelsman**

*ANZAC Research Institute, Australia*

**Prof Roger Hart**

*University of Western Australia & Fertility Specialists of WA, Australia*

**Ms Clare Headland**

*Consumer Representative, Australia*

**Prof Alison Heather**

*University of Otago, New Zealand*

**A/Prof Robin Hobbs**

*Hudson Institute of Medical Research, Australia*

**A/Prof Karla Hutt**

*Monash University, Australia*

**Prof Sandra Iuliano**

*University of Melbourne / Austin Health, Australia*

**Dr Timothy Jenkins**

*Brigham Young University, United States*

**Dr John Kemp**

*The University of Queensland, Australia*

**A/Prof Grace Kong**

*Peter MacCallum Cancer Centre, Australia*

**Prof Marlena Kruger**

*Massey University, New Zealand*

**Dr Julia Kuliwaba**

*The University of Adelaide, Australia*

**Prof Itamar Levinger**

*Victoria University, Australia*

**Prof Kate Loveland**

*Monash University and Hudson Institute for Medical Research, Australia*

**Prof Louise Maple-Brown**

*Menzies School of Health Research, Australia*

**Dr Mariana Media Sanchez**

*Leibniz Institute for Solid State and Materials Research, Germany*

**A/Prof Clare Minahan**

*Griffith University, Australia*

**Prof Karen Moritz**

*University of Queensland, Australia*

**Prof John Newnham**

*University of Western Australia, Australia*

**Dr Michele O'Connell**

*The Royal Children's Hospital Melbourne, Australia*

**Dr Emerson Osterberg**

*Healthy Minds, Happy Kids, Australia*

**A/Prof Nathan Pavlos**

*University of Western Australia, Australia*

**Prof Craig Pennell**

*University of Newcastle, Australia*

**Prof Tony Perkins**

*Griffith University, Australia*

**Dr Lisa Philp**

*Australian Prostate Cancer Research Centre, Australia*

**Dr Taylor Pini**

*The University of Queensland, Australia*

**A/Prof Kirsty Pringle**

*University of Newcastle, Australia*

**Dr Dulama Richani**

*UNSW Sydney, Australia*



**Prof Darryl Russell**  
*University of Adelaide, Australia*

**Prof Ravi Savarirayan**  
*Murdoch Children's Research  
Institute, Australia*

**Dr Kirsty Short**  
*The University of Queensland,  
Australia*

**Dr Peter J Simm**  
*Royal Children's Hospital  
Melbourne, Australia*

**Prof Lee Smith**  
*University of Newcastle, Australia*

**Prof Sarah Spencer**  
*RMIT University, Australia*

**Prof Helena Teede**  
*Monash University, Australia*

**Prof Merlin Thomas**  
*Monash University, Australia*

**Prof Jeremy Thompson**  
*Fertilis Pty Ltd, Australia*

**Prof Wayne Tilley**  
*University of Adelaide, Australia*

**Dr Erica Todd**  
*Deakin University, Australia*

**Prof Stephen Tong**  
*University of Melbourne, Mercy  
Hospital for Women, Australia*

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*University Of New South Wales,  
Australia*

**Dr Camilla Whittington**  
*University of Sydney, Australia*

**Prof Gary Wittert**  
*University of Adelaide, Australia*

**Dr Caitlin Wyrwoll**  
*University of Western Australia,  
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**Dr Jun Yang**  
*Hudson Institute of Medical  
Research, Australia*

**Prof Bu Yeap**  
*University of Western Australia,  
Australia*

**NEW**



## Kyowa Kirin Australia is proud to announce the TGA registration of CRYSVITA® (burosumab)<sup>1</sup>

CRYSVITA® is a new fully human monoclonal antibody that binds to and inhibits the activity of FGF23, which is present in excess X-linked hypophosphataemia (XLH)<sup>1</sup>. CRYSVITA® is indicated for the treatment of XLH in adults, adolescents and children 1 year of age or older<sup>1</sup>.

Kyowa Kirin is a research-based life sciences company focused on developing revolutionary treatments through leading-edge biotechnology.

**PBS INFORMATION:** This medicine is not available through the PBS

Please review full Product Information before prescribing. Product Information is available on request from enquiry.kkau@kyowakirin.com or [click here](#).

**Ref: 1.** Australian Product Information for CrysVita® (burosumab) approved 10 September 2021.  
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<https://www.kyowakirin.com/australia/index.html> KKAU-XLH-2110051 Date of preparation: October 2021.  
 ▼ This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at [www.tga.gov.au/reporting-problems](http://www.tga.gov.au/reporting-problems).

**KYOWA KIRIN**



**trulicity**  
 dulaglutide once-weekly injection

**NOW  
 PBS LISTED  
 WITH  
 INSULIN<sup>1</sup>**

Australia's only once-weekly GLP-1 RA indicated to reduce the risk of **MAJOR ADVERSE CARDIOVASCULAR EVENTS**

in adults with T2D at CV risk<sup>\*2,3</sup>

\*As an adjunct to standard of care therapy<sup>2</sup>

To find out more, contact Lilly on **1800 454 559**.

**PBS Information:** Authority Required (STREAMLINED). Type 2 diabetes. Criteria Apply. Refer to PBS Schedule for full Authority Required Information.

PLEASE REFER TO THE FULL PRODUCT INFORMATION BEFORE PRESCRIBING BY [CLICKING HERE](#) OR ON REQUEST BY CALLING 1800 454 559.

**ABBREVIATIONS:** CV, cardiovascular; GLP-1 RA, Glucagon-like peptide-1 receptor agonist; PBS, Pharmaceutical Benefits Scheme; T2D, type 2 diabetes.

**REFERENCES: 1.** Pharmaceutical Benefits Scheme. Available at: [www.pbs.gov.au](http://www.pbs.gov.au). Last accessed September 2021. **2.** Trulicity Approved Product Information, July 2020. **3.** Therapeutic Goods Administration. Available at: <https://www.ebs.tga.gov.au>. Last accessed September 2021.



Trulicity® is a registered trademark of Eli Lilly and Company. Eli Lilly Australia Pty Ltd, 112 Wharf Road, West Ryde NSW 2114, Australia. ABN 39 000 233 992. Medical information: 1800 454 559. Date of preparation: September 2021. PP-DG-AU-0721. ELI4546.

**trulicity**  
 dulaglutide once-weekly injection

**SUNDAY 21<sup>ST</sup> NOVEMBER 2021**

**ANZBMS Therapeutics Workshop**

1:30PM - 3:00PM

Stream A

Chairs: Frances Milat & Jasna Aleksova

- 1:30PM **Richard Prince** (*University of Western Australia*)  
Update from the ANZBMS therapeutics committee
- 1:40 PM **Roderick Clifton-Bligh** (*Department of Endocrinology, Royal North Shore Hospital, St Leonards, NSW, Australia*)  
Fibrodysplasia Ossificans Progressiva: Insights Into Heterotopic Bone Formation From a Rare Congenital Bone Disorder *abs# 1*
- 2:05 PM **Peter J Simm** (*Royal Children's Hospital Melbourne, Parkville, VIC, Australia*)  
The Role of Bisphosphonates in the Management of Bone Health Issues in Childhood. *abs# 2*
- 2:30 PM **Weiwen Chen** (*St Vincent's Hospital, Darlinghurst, NSW, Australia*)  
Osteoanabolic Therapy: A New Era for Osteoporosis? *abs# 3*

**Break**

3:00PM - 3:15PM

e-Poster Viewing and Networking

**ANZBMS National invited speaker - Marlena Kruger**

3:15PM - 3:45PM

Stream A

Chair: Jenny Gunton

- 3:15 PM **Marlena C Kruger** (*Massey University, Palmerston North, New Zealand*)  
The gut microbiome and bone metabolism: an update. *abs# 4*

*The conference acknowledges the support of:*



**ANZBMS Clinical Orals**

3:45PM - 4:45PM

Stream A

Chairs: Jackie Center & Albert Kim

- 3:45 PM **Melanie Kistler-Fischbacher** (*Menzies Health Institute Queensland , Griffith University, Gold Coast, Queensland, Australia*)  
*J.S. Yong, B.K. Weeks, B.R. Beck*  
High-intensity exercise and hip bone geometry in postmenopausal women on or off bone medication: The MEDEX-OP trial *abs# 5*
- 3:57 PM **Marc Sim** (*Medical School, The University Western Australia, Perth, Western Australia, Australia*)  
*J. Dalla Via, D. Scott, W.H. Lim, J.M. Hodgson, K. Zhu, R.M. Daly, G. . Duque, R.L. Prince, J.R. Lewis*  
Creatinine to cystatin C ratio: A novel biomarker of sarcopenia measures and falls risk in community-dwelling older women? *abs# 6*
- 4:09 PM **Mia A Percival** (*Deakin University, Geelong*)  
*J. Pasco, S. Hosking, L. Williams, K. Holloway-Kew, N. Hyde*  
Associations between Vitamin D Receptor polymorphism, Childhood Fracture Risk and Maternal Vitamin D Levels in utero: The Vitamin D in Pregnancy Study *abs# 7*

- 4:21 PM **Dominic Hauck** (*University of Sydney, Sydney, NSW, Australia*)  
*M. Nery, R. O'Connell, R. Clifton-Bligh, A. Mather, C. Girgis*  
 Bisphosphonates and bone mineral density in patients on haemodialysis and renal transplant: a 15-year single-centre experience *abs# 8*
- 4:33 PM **Erik F Eriksen** (*Department of Endocrinology, Oslo University Hospital, Oslo, Norway*)  
*Y. Shi, J.P. Brown, S. Horlait, C. Libanati, P. Chavassieux, R.W. Boyce*  
 Kinetic reconstruction of the cancellous (Cn) and endocortical (Ec) remodeling unit reveals a net positive bone balance after 12 months (M12) of treatment with romosozumab (Romo) *abs# 9*

**Break**

4:45PM - 5:00PM

e-Poster Viewing and Networking

**SRB Forum - Bridging the gaps from discovery to impact**

5:00PM - 6:00PM

Stream A

Chairs: Kelly Walton & Lisa Akison

- 5:00 PM **Jeremy Thompson** (*The Robinson Research Institute, School of Medicine, The University of Adelaide, Adelaide, SA, Australia*)  
 Discovery to Industry *abs# 10*
- 5:15 PM **John Newnham** (*University of Western Australia, King Edward Memorial Hospital, Subiaco, WA, Australia*)  
 Discovery to Policy *abs# 12*
- 5:30 PM **Helena Teede** (*Monash Health/Monash University, Clayton, Vic, Australia*)  
 Discovery to the Clinic *abs# 11*
- 5:45 PM **Panel Discussion**

The conference acknowledges the support of:



**SRB Forum - Bridging the gaps from discovery to impact - Network with the speakers**

6:00PM - 6:15PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

**Joint Welcome & Awards from the Presidents**

6:15PM - 6:45PM

Stream A

**Prof Bu Yeap**  
 ESA President

**Prof Moira O'Bryan**  
 SRB President

**Prof Natalie Sims**  
 ANZBMS President

**Joint Welcome Reception Networking**

6:45PM - 8:00PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

The conference acknowledges the support of:



For your patients with type 2 diabetes  
**THE POWER TO ACCOMPLISH MORE<sup>†</sup>**  
**<sup>†</sup>Above and beyond glycaemic control<sup>1,2^</sup>**



<sup>^</sup>The **ONLY** ORAL T2D treatment indicated for  
**PREVENTION OF CV DEATH**  
in patients with T2D and established CV disease  
(CAD, PAD, MI or stroke) on top of standard of care<sup>†#</sup>

<sup>#</sup>Standard of care included antihypertensives, lipid-lowering agents, anticoagulants and glucose-lowering therapies.<sup>2</sup>



**NOW**  
for patients  
with T2D and

**eGFR  $\geq$  30**  
mL/min/1.73m<sup>2</sup> (1)\*

\*See PI for renal monitoring requirements

**Jardiance<sup>®</sup>**  
(empagliflozin)

**PBS Information: JARDIANCE<sup>®</sup>: Authority Required (STREAMLINED). Type 2 Diabetes.**

**Code 7506** - Add-on to metformin or SU. **Code 4991** - Add-on to Insulin. **Code 5629** - Triple therapy (with metformin and SU).  
**Code 7528** - Triple therapy, initial treatment (with metformin + DPP4i). **Code 7495** - Triple therapy, continuing treatment  
(with metformin + DPP4i). Refer to PBS Schedule for full Authority Required Information.

BEFORE PRESCRIBING, PLEASE REVIEW THE FULL PRODUCT INFORMATION AVAILABLE FROM BOEHRINGER INGELHEIM AT  
[WWW.BOEHRINGER-INGELHEIM.COM.AU/PI](http://WWW.BOEHRINGER-INGELHEIM.COM.AU/PI).

**JARDIANCE<sup>®</sup> (empagliflozin) 10 mg, 25 mg film-coated tablets. INDICATIONS:** Glycaemic control: Treatment of type 2 diabetes mellitus (T2DM) to improve glycaemic control in adults as: *Monotherapy* - When diet and exercise alone do not provide adequate glycaemic control in patients for whom use of metformin is considered inappropriate due to intolerance; *Add-on combination therapy* - With other glucose-lowering medicinal products including insulin, when these, together with diet and exercise, do not provide adequate glycaemic control. Prevention of cardiovascular (CV) death: In patients with T2DM and established CV disease to reduce the risk of CV death. To prevent CV deaths, Jardiance should be used in conjunction with other measures to reduce CV risk in line with the current standard of care. **CONTRAINDICATIONS:** Hypersensitivity to empagliflozin or any of the excipients; patients with severe renal impairment (eGFR less than 30mL/min/1.73m<sup>2</sup>), end-stage renal disease and patients on dialysis; rare hereditary conditions of galactose intolerance, e.g. galactosaemia. **PRECAUTIONS:** Patients with type 1 diabetes; diabetic ketoacidosis; surgery; discontinue when eGFR below 30mL/min/1.73m<sup>2</sup> or CrCl <30mL/min; monitoring of renal function is recommended; consider discontinuation in patients with recurrent urinary tract infections (UTIs); genital infections including life threatening necrotising fasciitis; patients for whom a drop in BP could pose a risk (e.g. those with known CV disease, on diuretics, have a history of hypotension, or aged  $\geq$ 75 years); pregnancy; lactation; children (<18 years). **INTERACTIONS:** Diuretics - may add to diuretic effect of thiazide and loop diuretics; insulin and sulfonylurea (SU) - may increase the risk of hypoglycaemia; interference with 1,5-anhydroglucitol assay. **ADVERSE REACTIONS:** Very common: hypoglycaemia (combination with metformin and an SU; insulin). Common: hypoglycaemia (combination with metformin; pioglitazone with or without metformin; metformin and linagliptin); UTIs; increased urination; vaginal moniliasis, vulvovaginitis, balanitis and other genital infections; volume depletion (patients aged  $\geq$ 75 years); thirst; serum lipids increased. Others, see full PI. **DOSAGE AND ADMINISTRATION:** Recommended starting dose is 10mg once daily taken with or without food. Patients tolerating 10mg once daily and require additional glycaemic control, increase dose to 25mg once daily. No dose adjustment is necessary for patients based on age, patients with eGFR  $\geq$ 30mL/min/1.73m<sup>2</sup> or hepatic impairment. When used in combination with an SU or insulin, a lower dose of the SU or insulin may be considered to reduce the risk of hypoglycaemia. May 2021.

CAD=coronary artery disease; CV=cardiovascular; MI=myocardial infarction; PAD=peripheral artery disease; PI= Product Information.

**References:** 1. JARDIANCE<sup>®</sup> Product Information 03 May 2021. 2. Zinman B *et al.* *N Engl J Med* 2015;373:2117–28.

## MONDAY 22<sup>ND</sup> NOVEMBER 2021

### ANZBMS Roger Melick Young Investigator Session

8:30AM - 10:15AM

Stream B

Chairs: Michelle McDonald & Joshua Lewis

- 8:30 AM **Shoichiro Tani** (*Center for Disease Biology and Integrative Medicine, The University of Tokyo, Tokyo, Japan*)  
*H. Okada, M. Seki, Y. Suzuki, T. Saito, S. Tanaka, U. Chung, H. Hojo, S. Ohba*  
Elucidating human skeletal development using single-cell analyses with a model of endochondral bone formation using human pluripotent stem cells *abs# 13*
- 8:42 AM **Martha Blank** (*Bone Cell Biology and Disease Unit, St. Vincent's Institute of Medical Research, Melbourne, Victoria, Australia*)  
*N. Ling, E. McGowan, W. Smiles, B. Crimeen-Irwin, M. Dutt, B.L. Parker, T. Martin, N.A. Sims*  
EphrinB2 limits mineralisation in osteocytes in an mTOR-dependent manner by downregulating the lysosomal master transcriptional regulator TFEB *abs# 14*
- 8:54 AM **Ruby Oberin** (*Hudson Institute of Medical Research, Clayton, VICTORIA, Australia*)  
*Z. Qu, H. Bildscoe, T. Tesha, S. Petautsching, E. Jarred, S. Pederson, D. Adelson, N. McGregor, N.A. Sims, P.S. Western*  
Determining the role of maternal epigenetic inheritance on bone development and disease *abs# 15*
- 9:06 AM **Jakub Mesinovic** (*Department of Medicine, Monash University, Melbourne, Victoria, Australia*)  
*A. Rodriguez, M. Cervo, A. Gandham, C. Xu, C. Glavas, B. De Courten, A. Zengin, P. Ebeling, D. Scott*  
Vitamin D supplementation and exercise for improving physical function, body composition and metabolic health in overweight or obese older adults with vitamin D deficiency: a randomised, double-blind, placebo-controlled trial *abs# 16*
- 9:18 AM **Kara B Anderson** (*Deakin University, Geelong, VIC, Australia*)  
*P.G. Rufus-Membere, N.K. Hyde, D. Hans, J.A. Pasco, M.A. Kotowicz, K.L. Holloway-Kew*  
Trabecular bone score is associated with prospective fracture and refracture risk in Australian adults *abs# 17*
- 9:30 AM **Dima Alajlouni** (*Faculty of Medicine, UNSW Sydney, Sydney, NSW, Australia*)  
*D. Bliuc, T. Tran, R.D. Blank, P.M. Cawthon, K.E. Ensrud, N.E. Lane, J.R. Center*  
Muscle strength and physical performance are associated with risk of post fracture mortality but not subsequent fracture *abs# 18*
- 9:42 AM **Jason Talevski** (*Australian Institute for Musculoskeletal Science (AIMSS), The University of Melbourne and Western Health, Melbourne, VIC, Australia*)  
*K. Sanders, S. Vogrin, G. Duque, A. Beauchamp, E. Seeman, S. Iuliano, A. Svedbom, F. Borgstrom, J. Kanis, A. Stuart, S. Brennan-Olsen*  
Is recovery of quality of life post-fracture associated with 5-year mortality? The Australian arm of the International Costs and Utilities Related to Osteoporotic fractures Study (AusICUROS) *abs# 19*
- 9:54 AM **Eugenie Macfarlane** (*ANZAC Research Institute, University of Sydney, Concord, NSW, Australia*)  
*L. Cavanagh, C. Fong-Yee, E. Imlay, J. Tuckermann, M.J. Seibel, H. Zhou*  
Endogenous glucocorticoid signalling plays an important role in surgically induced murine osteoarthritis which is accelerated by chronic disruption of circadian rhythm *abs# 20*

The conference acknowledges the support of:



### SRB Founders' Lecture

8:30AM - 9:30AM  
Chair: Andrew Pask

Stream C

8:30 AM **Neil J Gemmell** (*Department of Anatomy, University of Otago, Dunedin, New Zealand*)  
Some Things Fishy – Insights for Reproductive Biologists from Fish *abs# 21*

The conference acknowledges the support of:



### SRB The Robinson Research Institute Award

9:30AM - 10:10AM  
Chair: Ray Rodgers

Stream C

9:30 AM **Natalie Hannan** (*The Translational Obstetrics Group, , Department of Obstetrics and Gynaecology, Mercy Hospital for Women, University of Melbourne, Australia, Heidelberg, Vic*)  
Tackling Major Complications of Pregnancy: Novel Approaches to Understand and Treat the Underlying Pathophysiology. *abs# 22*

The conference acknowledges the support of:



### ESA Symposium - Diabetes (100th anniversary of Banting and Best)

9:00AM - 10:30AM  
Chairs: Shane Hamblin & Angela Lee

Stream A

9:00 AM **Merlin Thomas** (*Monash University, Melbourne, VIC, Australia*)  
Complications Are Now the Key Focus of Diabetes Management *abs# 23*

9:20 AM **Josephine Forbes** (*Mater Research Institute - The University of Queensland, Brisbane, QLD, Australia*)  
RAGE as a Novel Therapeutic Pathway to the Prevention of Type 1 Diabetes *abs# 24*

9:40 AM **Gary Wittert** (*University of Adelaide, Adelaide, SA, Australia*)  
Testosterone and Type 2 diabetes in Men. The Chicken, the Egg, or the Bees' Knees? *abs# 25*

10:00 AM **Louise Maple-Brown** (*Department of Endocrinology, Royal Darwin Hospital, NT, Australia*)  
Diabetes Across the Lifecourse: A Translational Partnership to Improve Diabetes Outcomes Across Northern Australia *abs# 26*

The conference acknowledges the support of:



### Morning Tea

10:00AM - 10:30AM  
e-Poster Viewing and Networking

The conference acknowledges the support of:



### Joint Welcome from the Presidents

10:30AM - 10:45AM

Stream D

**Prof Bu Yeap**  
ESA President

**Prof Moira O'Bryan**  
SRB President

**Prof Natalie Sims**  
ANZBMS President

## ESA Novartis Junior Scientist Award

10:45AM - 12:45PM

Stream D

Chairs: Renea Taylor & Peter Fuller

- 10:45 AM **Bronia Harding-Davis** (*Monash University, Clayton, VIC*)  
*N. Bajaj, Z.B. Andrews, K.L. Walton, S.H. Lockie*  
Central administration of activin A in male mice suppresses food intake in response to fasting and ghrelin *abs# 27*
- 11:05 AM **Jack Lockett** (*Mater Research Institute-The University of Queensland, Translational Research Institute, Brisbane, QLD, Australia*)  
*Z. Saif, B.J. Nolan, S. Keshvari, N. Cesana Nigro, A.D. Ewing, W.J. Inder, V.L. Clifton*  
Glucocorticoid receptor isoform expression in PBMCs is different in states of glucocorticoid excess and deficiency and associated with alterations in downstream gene signalling *abs# 28*
- 11:25 AM **Martin A Estermann** (*Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University, Melbourne, Victoria, Australia*)  
*A.T. Major, C.A. Smith*  
PCOS associated gene *TOX3* regulates steroidogenic cell differentiation *abs# 29*
- 11:45 AM **Nikshay Karthigan** (*Cardiovascular Endocrinology Laboratory, Baker Heart and Diabetes Institute, Melbourne, VIC, Australia*)  
*S. Lockwood, A. White, J. Yang, M. Young*  
Identification of mineralocorticoid receptor antagonist-sensitive biomarkers for personalised therapy in heart failure *abs# 30*
- 12:05 PM **Rosalia Quezada Urban** (*Cancer Research Division, Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia*)  
*S. Keerthikumar, A.K. Clark, L.H. Porter, M.G. Lawrence, R.A. Taylor, G.P. Risbridger, R. Toivanen, D.L. Goode*  
Single-cell RNA analysis reveals heterogeneous sub-populations in neuroendocrine prostate cancer *abs# 31*
- 12:25 PM **Shabnam Bakhshalizadeh** (*Murdoch Children's Research Institute, Melbourne, VIC, Australia*)  
*R. Sreenivasan, K.M. Bell, N. Siddall, F. Casagrande, S. Kamalanathan, D.H. Hock, J. Van den berg, G. Robevska, K. Ayers, D.A. Stroud, D.R. Thorburn, G.R. Hime, A.H. Sinclair, E.J. Tucker*  
A biallelic variant in *MRPL50* is associated with syndromic premature ovarian insufficiency in twin sisters *abs# 32*

The conference acknowledges the support of:



## ANZBMS Plenary - Marjolein van der Meulen

10:45AM - 11:15AM

Stream B

Chairs: David Scott & Natalie Wee

- 10:45 AM **Marjolein van der Meulen** (*Cornell Engineering, Ithaca, NEW YORK, United States*)  
Biomechanical response of bone to load and mechanobiological mechanisms of load induced OA *abs# 33*

The conference acknowledges the support of:





**ANZBMS National invited speaker - Audrey Chan**

11:15AM - 11:45AM

Stream B

Chairs: David Scott & Natalie Wee

- 11:15 AM **Audrey Chan** (*The University of Melbourne, Parkville, VIC, Australia*)  
How Muscles Influence Bone Structure abs# 34

The conference acknowledges the support of:



**ANZBMS Plenary E-Posters**

11:45AM - 12:18PM

Stream B

Chairs: David Scott & Natalie Wee

- 11:45 AM **Charles Inderjeeth** (*North Metropolitan Health and University of Western Australia, Nedlands, WA, Australia*)  
*W. Harrod*  
Systematic Review: Morbidity and all-cause mortality of current osteoporosis treatments. abs# 35

- 11:48 AM **Shejil Kumar** (*Endocrinology Department, St George Public Hospital, SYDNEY, New South Wales, Australia*)  
*T. Diamond, C. Bryant, R. Quinn, F. Bonar, P.A. Baldock, M.M. McDonald*  
Accelerated diffuse osteosclerosis, high bone mass phenotype and hungry bone syndrome in a man with adenocarcinoma of unknown primary abs# 36

- 11:51 AM **Friederike Thomasius** (*Frankfurter Hormon und Osteoporosezentrum, , Frankfurt, Germany*)  
*S. Palacios, A. Alam, M. Boolell, R.L. Duckham, F. Vekeman, G. Gauthier*  
Comparison of Fracture Rates and Economic Outcomes Between Women with Osteoporosis Receiving Risedronate Enteric-Coated and Alendronate abs# 37

- 11:54 AM **Lana J Williams** (*Deakin University, Geelong, VIC, Australia*)  
*A.L. Stuart, J.A. Pasco, J.M. Hodge, R. Samarasinghe, V. Chandrasekaran, I. Zulman, M. Berk*  
Lithium use and bone mineral density abs# 38

- 11:57 AM **Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)  
*B. Johnson, M. McClung, S. Silverman, S.R. Gandra, J. Timoshanko, B. Stollenwerk*  
Estimating relative fracture reduction of romosozumab versus teriparatide for postmenopausal osteoporosis using bone mineral density outcomes abs# 39

- 12:00 PM **Yaser Peymanfar** (*UniSA: Clinical and Health Sciences, University of South Australia, Adelaide, SA, Australia*)  
*Y. Su, C. Xian*  
Targeting Notch2 signalling to overcome methotrexate chemotherapy-induced bone and bone vasculature damage in rats abs# 41

- 12:03 PM **Natalie C Butterfield** (*Imperial College, London, United Kingdom*)  
*J.J. Miskiewicz, D. Komla-Ebri, S. Guilefoyle, M. Dack, A. Lawton, R. Lindsay, A. Adoum, D. Bassett, G.R. Williams, K. Ikegami, T. Yoshimura*  
Regulation of medullary bone in Japanese quail requires photoperiod-induced central actions of thyroid hormone. abs# 42

- 12:06 PM **Esther Camp** (*School of Biomedicine, University of Adelaide, Adelaide, South Australia, Australia*)  
*P.J. Anderson, S. Gronthos*  
Drug targeting of Tyrosine kinase receptor c-ros-oncogene 1 (C-ROS-1) to treat pre-fusion of coronal sutures in a pre-clinical model of craniosynostosis abs# 43

- 12:09 PM **Mriga Dutt** (*Department of Anatomy and Physiology, Faculty of Medicine, School of Biomedical Sciences, University of Melbourne, Parkville, VIC, Australia*)  
*R. Blazev, L. Liao, A. Chan, N.K. Wee, J. Molendijk, V.R. Haynes, Y. Ng, V.U. Sokolov, K.A. Smith, G.T. Dodd, G.G. Lynch, N.A. Sims, B.L. Parker*  
 Integrating phosphoproteomics and functional genomics to identify novel insulin signalling regulators in bone *abs# 44*
- 12:12 PM **Natalie KY Wee** (*Bone Cell Biology and Disease, St Vincent's Institute of Medical Research, Fitzroy, Victoria, Australia*)  
*T.F. Lima, N.E. McGregor, E.C. Walker, N.A. Sims*  
 Deletion of leptin receptor further delays cortical bone consolidation in female mice with activated STAT3 signalling *abs# 45*
- 12:15 PM **Kylie A Alexander** (*Mater Research, The University of Queensland, Brisbane, QUEENSLAND, Australia*)  
*H. Tseng, I. Kulina, W. Fleming, C. Vaquette, F. Genet, M. Ruitenber, J. Levesque*  
 Lymphocytes are not required for the development of neurogenic heterotopic ossification after spinal cord injury *abs# 46*

#### ANZBMS Plenary E-Poster - Virtual Chat

12:18PM - 12:45PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

#### SRB Newcastle Reproduction Emerging Research Leader Award

10:45AM - 12:45PM

Stream C

Chairs: Rebecca Robker & Brett Nixon

- 10:45 AM **Reza Nosrati** (*Leibniz Institute For Solid State and Materials Research, Dresden, Germany*)  
 Microfluidics for Fertility *abs# 47*
- 11:15 AM **Emily R Bryan** (*Centre for Immunology and Infection Control, Queensland University of Technology, Brisbane, Queensland, Australia*)  
*L.K. Trim, J.A. Tickner, J.J. Kim, S. Worley, K. Gough, A.J. Carey, K.W. Beagley*  
 The impacts of *Chlamydia* infection and vaccination on the male reproductive tract *abs# 48*
- 11:45 AM **Fiona Brownfoot** (*University of Melbourne Translational Obstetric Group, Mercy Hospital for Women, Heidelberg, VIC, Australia*)  
*E. Keenan, A. Rana, E. Schartner, M. Palaniswami, E. Kadife, A. Harper, R. Hastie, N. Hannan, T. Kaitu'u-Lino, S. Tong*  
 Developing Novel Devices and Treatments to Improve Pregnancy Outcomes *abs# 49*
- 12:15 PM **Jessica M Stringer** (*Department of Anatomy and Developmental Biology, Biomedicine Discovery Institute, Monash University, Clayton, Australia*)  
 Examining the impacts of toxins on female fertility and health of future generations *abs# 50*

The conference acknowledges the support of:



## ESA Clinical Orals

10:45AM - 12:45PM

Stream A

Chairs: Sunita De Sousa & Emily Brooks

- 10:45 AM **Jiuan Ting** (*North Metropolitan Health and University of Western Australia, Nedlands, WA, Australia*)  
*C. Inderjeeth, K. Chan, W. Raymond, J. Lu, R. Kwok, S. Jansen*  
Lower Psoas Muscle Area is associated with increased mortality after endovascular aneurysm repair in older adults *abs# 51*
- 11:00 AM **Courtney L Robertson** (*Fiona Stanley hospital, Muroch, WA, Australia*)  
*G. Ghosh, P. Fitzgerald, G.J. Hankey, P.R. Ebeling, I. Levinger, J. Golledge, O.P. Almeida, L. Flicker, B.B. Yeap*  
Markers of higher bone turnover are associated with all-cause and cardiovascular disease mortality risk in older men. *abs# 52*
- 11:15 AM **Caroline Jung** (*St Vincent's Hospital, Fitzroy, VIC, Australia*)  
*M. Derbyshire, N. Jauhar, D.J. Topliss, R. Gogna, J.R. Burgess, W.J. Inder*  
A multicentre 25-year data on the performance of the 4-mg intravenous dexamethasone suppression test in the diagnosis of Cushing's syndrome *abs# 53*
- 11:30 AM **Hikaru Hashimura** (*Endocrinology, Monash Health, Clayton*)  
*J. Hu, H. Kobayashi, S. Gwini, J. Shen, N.Y. Chee, J.C. Doery, W. Chong, P.J. Fuller, M. Abe, Q. Li, J. Yang*  
The use of saline suppression test parameters to predict bilateral subtype of primary aldosteronism - an international multicentre study *abs# 54*
- 11:45 AM **Jinghong Zhang** (*Central Clinical School, Monash University, Melbourne*)  
*R. Libianto, J. Lee, S. Grodski, J. Shen, P. Fuller, J. Yang*  
Pre-operative mineralocorticoid receptor antagonist reduces postoperative hyperkalaemia in patients with Conn Syndrome *abs# 55*
- 12:00 PM **Maame Esi Woode** (*Centre for Health Economics, Monash University, Caulfield, Victoria, Australia*)  
*K. Wong, C. Reid, M. Stowasser, G. Russell, S. Gwini, M. Young, P. Fuller, G. Chen, J. Yang*  
Cost-effectiveness of screening for primary aldosteronism in hypertensive patients *abs# 56*
- 12:15 PM **Rakibul M Islam** (*Monash University, Melbourne, VIC, Australia*)  
*R.J. Bell, D.J. Handelsman, J.J. McNeil, M.R. Nelson, C.M. Reid, A.M. Tonkin, R. Wolfe, S.R. Davis*  
Low blood levels of testosterone and DHEA are associated with an increased risk of ischemic cardiovascular events in older women *abs# 57*
- 12:30 PM **Jennifer Ng** (*Hollywood Consulting Centre, Nedlands, WA, Australia*)  
*E. Lim, R. Zhang, J. Beilby, G. Watts, B. Stuckey*  
Diagnosis of 21-hydroxylase deficient non-classic congenital adrenal hyperplasia and heterozygosity by liquid chromatography and tandem mass spectrometry *abs# 58*

## Lunch + e-Poster Viewing

12:45PM - 1:45PM

e-Poster Viewing and Networking

## ESA T4DM Forum

1:00PM - 1:50PM

Chair: Gary Wittert

Stream D

- 1:00 PM **David Handelsman** (*ANZAC Research Institute, Sydney, NSW, Australia*)  
T4DM Assays and Run-off *abs# 59*
- 1:15 PM **Mathis Grossmann** (*University of Melbourne Austin Health, Heidelberg, VIC, Australia*)  
Introduction of T4 Bone *abs# 60*
- 1:20 PM **Bu Yeap** (*School of Medicine, University of Western Australia, Perth, WA, Australia*)  
Cardiovascular overview *abs# 61*
- 1:15 PM **Questions and Panel Discussion**

## SRB Hudson Institute ECR & MCR Poster Finalist Session

12:45PM - 1:15PM

Chair: Patrick Western

Stream C

- 12:45 PM **Siena Barton** (*Department of Obstetrics and Gynaecology, University of Melbourne, Parkville, VIC, Australia*)  
*W. Zhou, L. Santos, S. Varshney, E. Dimitriadis*  
miR-23b-3p is involved in regulating human endometrial receptivity implying a role in implantation *abs# 62*
- 12:48 PM **Xian Chen** (*Department of Obstetrics and Gynaecology, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong SAR, China*)  
*Y. Lee, W. Yeung, E. Ng, R. Li, K. Lee*  
High-throughput in vitro screening identified Nemadipine-A that suppressed embryo implantation in vitro and in vivo *abs# 63*
- 12:51 PM **Jacinta H Martin** (*School of Biomedical Sciences and Pharmacy, Priority Research Centre for Reproductive Science, Mothers and Babies Research Centre, Hunter Medical Research Institute, University of Newcastle, Newcastle, New South Wales, Australia*)  
*R. Mohammed, D.A. Skerrett-Byrne, S.J. Delforce, C. Corbisier, J.G. Almazic, N.M. Verrills, A.N. Stephens, E. Dimitriadis, Y. Wang, E.R. Lumbers, K.G. Pringle*  
Role of the prorenin receptor in endometrial cancer cell growth *abs# 64*
- 12:54 PM **Ruby Oberin** (*Hudson Institute of Medical Research, Clayton, VICTORIA, Australia*)  
*Z. Qu, H. Bildscoe, T. Tsai, E. Jarred, S. Petautsching, S. Pederson, D. Adelson, N. McGregor, N.A. Sims, P.S. Western*  
Altered epigenetic programming of oocytes modulates offspring growth and accelerates bone development *abs# 65*
- 12:57 PM **Sigrid Petautsching** (*Hudson Institute for Medical Research, Clayton, VIC, Australia*)  
*E. Jaehne, R. Oberin, T. Tsai, E. Jarred, S. Pederson, D. Adelson, M. van den Buuse, P. Western*  
Polycomb-dependent epigenetic programming in the oocyte modulates brain development and behaviour in offspring *abs# 66*
- 1:00 PM **Shanti Gurung** (*The Ritchie Centre, Hudson Institute of Medical Research, Clayton, VIC, Australia*)  
*J. Piskopos, C. Gargett, J. Werkmeister*  
Human endometrium derived mesenchymal stem cells and exosome: understanding their phenotype for therapeutic prospects *abs# 68*
- 1:03 PM **Tessa Lord** (*University of Newcastle, Callaghan, NSW, Australia*)  
*C. Oliveira, I.R. Berntstein, S.J. Stanger, N. Skillen, B. Nixon*  
Investigating a role for the hypoxia-inducible factor EPAS1 in spermatogonial stem cell function *abs# 69*

1:06 PM **Rukmali Wijayarathna** (*Centre For Reproductive Health, Hudson Institute of Medical Research, Melbourne, Victoria, Australia*)  
*E. de Geus, R. Sreenivasan, R. Genovese, P. Hertzog, M.P. Hedger*  
Anti-viral defences in the male reproductive tract: Expression and localisation of the novel type I interferon epsilon *abs# 70*

1:09 PM **Wai Shan Yuen** (*Biomedicine Discovery Institute, Clayton, VIC, Australia*)  
*Q. Zhang, J. Dunleavy, I. Lee, D. Adhikari, M. O'Bryan, J. Carroll*  
The canonical Katanin complex is essential for fertility during early embryonic mitoses but not in meiosis *abs# 71*

The conference acknowledges the support of:



#### SRB Hudson Institute ECR & MCR Poster Finalist Q&A

1:15PM - 1:45PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

The conference acknowledges the support of:



#### ESA Symposium - Neuroendocrine control of behaviour (Basic Science)

1:45PM - 3:15PM

Stream A

Chairs: Aneta Stefanidis & Vincent Harley

1:45 PM **Karen Moritz** (*University of Queensland, St Lucia, Qld, Australia*)  
*D. Burgess*  
Prenatal Alcohol Exposure and Mental Illness *abs# 72*

2:05 PM **Elodie Desroziers** (*Center for Neuroendocrinology and Department of Physiology, Otago School of Medical Sciences, University of Otago, Dunedin, New Zealand*)  
*N. Donaldson, M. Prescott, R.E. Campbell*  
Prenatal Androgen Excess Impairs Sexual Behavior in Adult Female Mice: Perspective on Sexual Dysfunction in PCOS *abs# 73*

2:25 PM **Zane Andrews** (*Monash University, Clayton, VIC, Australia*)  
Metabolic Sensing of Food Availability Integrates Hunger with Motivation and Adaptive Behaviour *abs# 74*

2:45 PM **Sarah Spencer** (*RMIT University, Melbourne, Vic, Vic, Australia*)  
The Role of Microglia in Regulating Satiety and Cognition *abs# 75*

The conference acknowledges the support of:



## ANZBMS Outstanding Orals

1:45PM - 3:05PM

Stream B

Chairs: Paul Anderson & Amy Harding

- 1:45 PM **Ryan C Chai** (*Bone Biology, Garvan Institute of Medical Research, Sydney, NSW, Australia*)  
*M. Lundberg, M. Frysz, W. Khoo, P. Baldock, D. Bassett, G.R. Williams, P.I. Croucher, J.P. Kemp*  
Multiscale analysis of single cell transcriptomics, human genetic association studies, and knockout mouse models identifies genes and cell types associated with bone mineral density and height *abs# 76*
- 2:01 PM **Alexander P Corr** (*Bone Biology, Garvan Institute of Medical Research, Sydney, NSW, Australia*)  
*R.C. Chai, W. Khoo, J.T. Smith, C. Sergio, G. McCaughan, J. Moore, T. Phan, P.A. Baldock, P.I. Croucher*  
Transcriptional mapping of the endosteal dormant tumour cell niche *abs# 77*
- 2:17 PM **Albert S Kim** (*Bone Biology Division, Garvan Institute of Medical Research, Darlinghurst, NSW, Australia*)  
*J. Zamerli, S. Mohanty, Y. Xiao, J.R. Center, C.M. Girgis, P.I. Croucher, M.M. McDonald*  
Sequential multi-dose zoledronate therapy prevents rebound bone loss following withdrawal of RANKL inhibition *abs# 78*
- 2:33 PM **Dana Bliuc** (*Osteoporosis and Bone Biology, Garvan Institute of Medical Research, Darlinghurst, NEW SOUTH WALES, Australia*)  
*T. Tran, D. Alarkawi, W. Chen, R.D. Blank, F. Blyth, L. March, J.R. Center*  
Self-assessed limited mobility is associated with increased fracture risk in both women and men in the 45 and Up Study *abs# 79*
- 2:49 PM **Alexander J Rodriguez** (*Bone and Muscle Research Group, Monash Medical Centre, Monash University, Melbourne, Victoria, Australia*)  
*N. Nerlekar, P.R. Ebeling*  
A global cardiovascular pharmacovigilance study of bisphosphonate and teriparatide users *abs# 80*

The conference acknowledges the support of:



## SRB President's Lecturer

1:45PM - 2:45PM

Stream C

Chair: Moira O'Bryan

- 1:45 PM **Bruce Murphy** (*Universite de Montreal, St-Hyacinthe, QC, Canada*)  
Orphan Receptors Regulate Ovaries and Rule Reproduction *abs# 81*

The conference acknowledges the support of:



## SRB Mercy Perinatal Mid-Career Medal Session

2:45PM - 3:25PM

Stream C

Chair: Stephen Tong

- 2:45 PM **Pradeep S Tanwar** (*School of Biomedical Sciences and Pharmacy, University of Newcastle, Callaghan, NSW, 2308, Australia. Hunter Medical Research Institute, New Lambton Heights, NSW, 2305, Australia. )*  
Reproductive tract organoids and their potential applications for improving patient outcomes *abs# 82*

The conference acknowledges the support of:



## ESA Basic Science Orals

2:00PM - 3:30PM

Stream D

Chairs: Craig Harrison & Sarah Lockie

- 2:00 PM **Angelique H Riepsamen** (*Fertility and Research Centre, School of Women's and Children's Health, University of New South Wales, Sydney, NSW, Australia*)  
*I.R. Indran, M.W. Donoghoe, S. Lien, L. Hechtman, D.M. Robertson, W.L. Ledger, R.B. Gilchrist, E. Yong*  
Oocyte-secreted GDF9 and BMP15 as serum biomarkers of ovarian function in healthy women and women with PCOS *abs# 83*
- 2:15 PM **Kelly L Walton** (*Monash University, Clayton, VIC, Australia*)  
*M.P. Goney, Z. Peppas, J.M. Stringer, A.L. Winship, K.J. Hutt, G. Goodchild, K.L. Chan, E. Brule', D.J. Bernard, W. Stocker, C.A. Harrison*  
Inhibin inactivation in female mice leads to elevated follicle stimulating hormone levels, ovarian stimulation and reproductive failure *abs# 84*
- 2:30 PM **Chen Chen** (*School of Biomedical Sciences, University of Queensland, St Lucia, Qld 4072, Australia*)  
*L. Cui, L. Huang, Z. Huang, C. Tan, M. Wu, M. Cowley, F. Roelfsema*  
Dapagliflozin restores ovulation in female melanocortin-4-receptor knock-out (MC4R KO) obese mice *abs# 85*
- 2:45 PM **Luba Sominsky** (*School of Health and Biomedical Sciences, RMIT University, Melbourne, VIC, Australia*)  
*S. Xavier, S. Spencer*  
Inflammation mediates the effects of peri-pregnancy diet on the maternal brain *abs# 86*
- 3:00 PM **Rebecca Shepherd** (*Molecular Immunity, Murdoch Children's Research Institute, Parkville, VIC, Australia*)  
*I. Bretherton, K. Pang, A. Czajko, B. Kim, A. Vlahos, J. Zajac, R. Saffery, A. Cheung, B. Novakovic*  
Gender affirming hormone therapy induces specific DNA methylation changes in blood *abs# 87*
- 3:15 PM **Blake Ashley** (*Hudson Institute of Medical Research, Melbourne, VIC, Australia*)  
*J. Erasmus, E. Vilain, V. Harley*  
Exploring a potential genetic basis of gender identity *abs# 88*

## Afternoon Tea

3:15PM - 3:45PM

e-Poster Viewing and Networking

## Where's Wally Competition

<https://spatial.chat/s/esasrbanzbms2021>

## Building collaborations and networking – the keys to a successful career

3:20PM - 4:20PM

Stream B

Chairs: Dulama Richani, Sarah Hosking & Emily Brooks

- 3:20 PM **Helena Teede** (*Monash Health/Monash University, Clayton, Vic, Australia*)  
Coproductin is key *abs# 89*
- 3:35 PM **Neil Gemmell** (*Department of Anatomy, University of Otago, Dunedin, New Zealand*)  
Experience as an academic and as an academic leader *abs# 90*
- 3:50 PM **Sandra Iuliano** (*University of Melbourne / Austin Health, West Heidelberg, VIC, Australia*)  
Experience with Industry *abs# 91*
- 4:05 PM **Panel Discussion**

The conference acknowledges the support of:



### ANZBMS e-Poster Networking

4:30PM - 6:00PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

4:30pm – 5:15pm **Odd numbered** e-Posters shall be presented.

5:15pm – 6:00pm **Even numbered** e-Posters should be presented.

### ANZBMS ECIC Trivia

6:00PM - 7:00PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

The conference acknowledges the support of:



### ESA Paul Lee Best Abstract Award Presentation

4:30PM - 4:45PM

Stream A

Chairs: Bu Yeap & Mathis Grossmann

- 4:30 PM **Valentina Rodriguez Paris** (School of Women's & Children's Health, University of New South Wales, Sydney, NSW 2052, Australia)  
S.J. Alexopoulos, Y. Hu, D.P. Shah, A. Aflatounian, M.C. Edwards, M.J. Bertoldo, R.B. Gilchrist, K.L. Hoehn, K.A. Walters  
BAM15: an innovative therapeutic approach to manage PCOS metabolic features associated with PCOS? *abs# 92*

The conference acknowledges the support of:



### ESA Mid-Career Award Lecture

4:45PM - 5:05PM

Stream A

Chairs: Bu Yeap & Mathis Grossmann

- 4:45 PM **Anju Joham** (Monash Centre for Health Research and Implementation, School of Public Health and Preventive Medicine, Monash University, Victoria, Australia )  
Polycystic Ovary Syndrome; Insulin Resistance and Data From Cohort Studies *abs# 93*

The conference acknowledges the support of:



### ESA Senior Plenary Lecture

5:05PM - 5:35PM

Stream A

Chairs: Bu Yeap & Mathis Grossmann

- 5:05 PM **David Handelsman** (ANZAC Research Institute, Sydney, NSW, Australia)  
Androgen Use, Misuse and Abuse *abs# 94*

The conference acknowledges the support of:



### ESA Harrison Plenary Lecture

5:35PM - 6:30PM

Stream A

Chairs: Bu Yeap & Mathis Grossmann

- 5:35 PM **Wiebke Alrt** (University of Birmingham, Edgbaston, Birmingham, United Kingdom)  
Steroid Metabolomics for the Exploration of Adrenal Disease *abs# 95*

The conference acknowledges the support of:





## SRB Symposium - Lessons From Non-Model Species

4:30PM - 6:30PM

Stream C

Chairs: Simon de Graaf & Zamira Gibb

- 4:30 PM **Jane Fenelon** (*University of Melbourne, Parkville, VIC, Australia*)  
*S. Johnston, M.B. Renfree*  
Reproduction and Development of the Short-Beaked Echidna *abs# 96*
- 5:00 PM **Erica Todd** (*Queenscliff Marine Science Centre, School of Life and Environmental Sciences, Deakin University, Queenscliff, VIC, Australia*)  
The Genomic Basis of Sex Change in Fish *abs# 97*
- 5:30 PM **Taylor Pini** (*The University of Sydney, South Hurstville, NSW, Australia*)  
*J. Rickard, X. Druart, S. de Graaf*  
Exploiting the physiological roles of seminal plasma in sheep *abs# 98*
- 6:00 PM **Paul Waters** (*School of Biotechnology and Biomolecular Sciences, University Of New South Wales, Sydney, NSW, Australia*)  
*A. Ruiz-Herrera*  
Meiotic Executioners and Persistent Y Chromosomes *abs# 99*

## SRB Orals - Pregnancy partuition and placenta

4:30PM - 6:30PM

Stream D

Chairs: Tu'uhevaha Kaitu'u-Lino & John Schjenken

- 4:30 PM **Peck Y Chin** (*Robinson Research Institute and School of Biomedicine, University of Adelaide, Adelaide, SA 5005, Australia*)  
*W.D. Lubell, D.M. Olson, S. Chemtob, J.A. Keelan, S.A. Robertson*  
IL-1 receptor antagonist rytvela protects against Group B Streptococcus (GBS)-induced preterm birth and fetal loss in mice. *abs# 100*
- 4:45 PM **Sarah J Delforce** (*School of Biomedical Sciences and Pharmacy, University of Newcastle, Callaghan, NSW, Australia*)  
*E.R. Lumbers, T.L. Symington, Z. Adams, T. Zakar, K.G. Pringle*  
The (pro)renin receptor regulates amnion matrix degradation and thus may play a role in preterm birth *abs# 101*
- 5:00 PM **Nikhilesh Bappoo** (*Vascular Engineering Laboratory, Harry Perkins Institute of Medical Research, Nedlands, WA, Australia*)  
*Y. Tongpob, L. Kelsey, K. Feindel, C. Wyrwoll, B. Doyle*  
A novel *in silico* framework of oxygen diffusion reveals reduced placental oxygenation in a rat model of growth restriction *abs# 102*
- 5:15 PM **Rachael Rogers** (*The University of Melbourne, Melbourne, Victoria, Australia*)  
*M. Chai, D. Mattiske, A. Pask*  
The transgenerational effect of diethylstilbesterol on female fertility *abs# 103*
- 5:30 PM **Ashley S Meakin** (*University of South Australia, Adelaide, SA, Australia*)  
*J.R. Darby, S.L. Holman, M.D. Wiese, J.L. Morrison*  
Maternal late gestation undernutrition does not affect fetal hepatic or placental cytochrome P450 activity *abs# 104*
- 5:45 PM **Claire I Richards** (*School of Life Sciences, University of Technology Sydney, Ultimo, NSW, Australia*)  
*A. Bottomley, L. Cole, K. McGrath, L. McClements*  
A novel multicellular 3D model of early pregnancy placental tissue *abs# 105*

6:00 PM **Jessie R Walker** (*Robinson Research Institute & School of Biomedicine, University of Adelaide, Adelaide, SA, Australia*)  
*E.S. Green, P.Y. Chin, L.M. Moldenhauer, S.A. Robertson*  
Proinflammatory phenotypic plasticity of maternal regulatory T cells precedes interleukin 1 $\beta$ -induced preterm birth in mice *abs# 106*

6:15 PM **Ellen Menkhorst** (*The University of Melbourne, Parkville, VIC, Australia*)  
*L. Santos, W. Zhou, K. Rainczuk, A. Winship, J. Zhang, A. Mansell, E. Dimitriadis*  
IL11 activates the placental inflammasome, causing pyroptosis and fibrosis and leading to preeclampsia. *abs# 107*

#### **ESA-SRB e-Poster Networking**

6:30PM - 7:30PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

6:30pm – 7:00pm **Odd numbered** e-Posters shall be presented.

7:00pm – 7:30pm **Even numbered** e-Posters should be presented.

#### **SRB Meeting of the Minds- Virtual social event**

7:30PM - 10:30PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

The conference acknowledges the support of:



## TUESDAY 23<sup>RD</sup> NOVEMBER 2021

### **Novo Nordisk Breakfast Symposium - Late endocrine effects of childhood cancers and the management into adulthood**

7:00AM - 8:00AM

Stream B

A panel discussion between international and local experts on managing adult patients with endocrine failure as a result of childhood cancer treatments

**Chair - Professor Margaret Zacharin**, Murdoch Children's Research Institute, The Royal Children's Hospital

**Speaker - Professor Laurie Cohen MD**, Associate Professor of Paediatrics, Harvard Medical School

The conference acknowledges the support of:



### **ESA/ANZBMS Symposium - Sport and Endocrine Disorders**

8:30AM - 10:00AM

Stream A

Chairs: Nandini Shankara Narayana & Belinda Beck

- 8:30 AM **Mathis Grossmann** (University of Melbourne Austin Health, Heidelberg, VIC, Australia)  
Dysregulation of the Male Gonadal Axis due to Energy Deficit *abs# 108*
- 8:50 AM **Clare Minahan** (Griffith University, Southport, QLD, Australia)  
Optimizing Performance in Female Athletes: A Spotlight on Hormonal Contraception *abs# 109*
- 9:10 AM **Itamar Levinger** (Victoria University, Melbourne, VIC, Australia)  
Exercise and bone turnover markers: implications for health *abs# 110*
- 9:30 AM **Alison K Heather** (Department of Physiology, School of Biomedical Sciences, University of Otago and InsituGen Ltd., Otago, New Zealand)  
Detection of Designer Steroids Using Androgen Bioassays *abs# 111*

### **SRB David Healy New Investigator Award**

8:30AM - 10:00AM

Stream C

Chairs: Caroline Gargett & Robert Gilchrist

- 8:30 AM **Ciara Murphy** (Obstetrics & Gynaecology, Mercy Hospital for Women, University of Melbourne, Heidelberg, VIC, Australia)  
*S.P. Walker, T.M. MacDonald, E. Keenan, N.J. Hannan, M.E. Wlodek, J. Myers, J.F. Briffa, T. Romano, P. Cannon, T. Nguyen, M. Kandel, N. Pritchard, C. Cluver, S. Tong, T.J. Kaitu'u-Lino*  
SPINT2 expression in pregnancies complicated by placental insufficiency *abs# 112*
- 8:45 AM **Stacey J. Savin** (Robinson Research Institute & School of Biomedicine, University of Adelaide, Adelaide, SA, Australia)  
*E.S. Green, P.Y. Chin, L.M. Moldenhauer, S.A. Robertson*  
Reduced progesterone signalling in the peri-conception phase programs impaired immune tolerance in adult female offspring *abs# 113*
- 9:00 AM **Bridget Arman** (Department of Obstetrics and Gynaecology, University of Melbourne, Heidelberg, Victoria, Australia)  
*N. Binder, N. de Alwis, S. Beard, D. Debruin, A. Hayes, S. Tong, T. Kaitu'u-Lino, N. Hannan*  
Assessment of the tocolytic nifedipine in pre-clinical primary models of preterm birth *abs# 114*

- 9:15 AM **Gemma Stathatos** (*The University of Melbourne, Parkville, VIC, Australia*)  
*J. Merriner, A. O'Connor, J. Dunleavy, J. Zenker, M. O'Bryan*  
 Epsilon tubulin is required for fertility in male mice and has essential roles in meiosis and spermatid remodelling *abs# 115*
- 9:30 AM **Bothidah Thach** (*Implantation and Pregnancy Research Laboratory, School of Health and Biomedical Science, RMIT University, Bundoora, VIC, Australia*)  
*N. Samarajeewa, Y. Li, S. Heng, T. Tsai, M. Pangestu, S. Catt, G. Nie*  
 Comparative analysis of a newly discovered human endometrial receptivity marker in rhesus macaques and mice *abs# 116*
- 9:45 AM **David A Skerrett-Byrne** (*Priority Research Centre for Reproductive Science, School of Environmental and Life Sciences College of Engineering, Science and Environment, The University of Newcastle, Newcastle, New South Wales, Australia*)  
*A.L. Anderson, E.G. Bromfield, I.R. Berntstein, J.E. Mulhall, J.E. Schjenken, S.J. Humphrey, B. Nixon*  
 Shifting the paradigm of sperm maturation; global proteomic profiling of epididymal sperm *abs# 117*

The conference acknowledges the support of:



### Morning Tea

10:00AM - 10:30AM

e-Poster Viewing and Networking

The conference acknowledges the support of:



### ESA/ANZBMS Symposium - Transgender Health

10:30AM - 12:30PM

Stream A

Chairs: Christopher Muir & Jeffrey Zajac

- 10:30 AM **Rachel Davey** (*University of Melbourne, Austin Health, Heidelberg, VIC, Australia*)  
 Investigating the effects of gender-affirming hormone therapy on bone using pre-clinical models. *abs# 118*
- 10:50 AM **Michele O'Connell** (*The Royal Children's Hospital, Melbourne, Melbourne, VIC, Australia*)  
 Gender affirming hormonal therapies for trans and gender diverse adolescents *abs# 119*
- 11:10 AM **Emerson Osterberg** (*Healthy Minds, Happy Kids, Parramatta, NSW, Australia*)  
 Psychological Challenges for Transgender Patients *abs# 120*
- 11:30 AM **Ada S Cheung** (*Department of Endocrinology, Austin Health, Heidelberg, VIC, Australia*)  
 Clinical Aspects of Bone Health in the Transgender Population *abs# 121*
- 11:50 AM **Clare Headland** (*Melbourne, VIC, Australia*)  
 Being transgender: a community member's perspective *abs# 122*
- 12:10 PM **Panel Discussion**

## SRB Symposium - Reproductive ageing and sustaining a pregnancy

10:30AM - 12:30PM

Stream C

Chairs: Claire Roberts & Roger Smith

- 10:30 AM **Alison Care** (*Robinson Research Institute and Adelaide Medical School, University of Adelaide, Adelaide, South Australia, Australia*)  
Regulatory T cells facilitate maternal vascular adaptations to pregnancy *abs# 123*
- 11:00 AM **Dulama Richani** (*Fertility & Research Centre, School of Women's and Children's Health, University of New South Wales Sydney, Australia*)  
*A. Poljak, B. Wang, J. Biazik, J. Campbell, A. Habibalahi, S.B. Mahbub, W. Stocker, D. Skerrett-Byrne, M. Marinova, S. Bustamante, B. Nixon, E. Goldys, C. Harrison, R.B. Gilchrist*  
Oocyte-cumulus cell bidirectional communication impacts oocyte quality *abs# 124*
- 11:30 AM **Stephen Tong** (*Translational Obstetrics Group, University of Melbourne, Mercy Hospital for Women, Heidelberg, VIC, Australia*)  
Oral Metformin: the first disease modifying drug for preeclampsia *abs# 125*
- 12:00 PM **Craig Pennell** (*University of Newcastle, New Lambton Heights, NEW SOUTH WALES, Australia*)  
Omega-3 Supplementation to Prevent Preterm Birth *abs# 126*

## SRB Orals - Oocyte Biology

10:30AM - 12:30PM

Stream D

Chairs: Darryl Russell & Amy Winship

- 10:30 AM **Alaknanda Emery** (*The Robinson Research Institute, Adelaide Medical School, The University of Adelaide, Adelaide, South Australia*)  
*R. Becker, R. Robker, k. Mrozik, A. Zannettino, A. Abell, D. Russell*  
Targeting N-cadherin during ovulation- a non-hormonal contraceptive *abs# 127*
- 10:45 AM **Atsushi Morimoto** (*Robinson Research Institute; The University of Adelaide, Unley, SA, Australia*)  
*K. Smith, T. Umehara, R. Rose, D. Russell, R. Robker*  
Ovarian cell metabolism at ovulation is correlated with oocyte competence and impacted by obesity and aging *abs# 128*
- 11:00 AM **Deepak Adhikari** (*Department of Anatomy and Developmental Biology and Development and Stem Cells Program, Monash Biomedicine Discovery Institute, Monash University, Clayton, VIC, Australia*)  
*I. Lee, J. Liu, U. AL-Zubaidi, Q. Zhang, W. Yuen, L. He, H. Sesaki, J. Mann, R. Robker, J. Carroll*  
Modulation of the oocyte epigenome by a mitochondrial fission protein *abs# 129*
- 11:15 AM **Qing-hua Zhang** (*Development and Stem cells Program and Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University, Melbourne*)  
*W. Yuen, D. Adhikari, J. Carroll*  
Cyclin A2 supports faithful chromosome segregation in the oocyte to embryo transition *abs# 130*
- 11:30 AM **Ellen Jarred** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia*)  
*T. Tsai, R. Oberin, S. Petautschnig, H. Bildsoe, Z. Qu, S. Pederson, D. Adelson, Q. Zhang, J. Carroll, J. Stringer, M. Truong, D. Gardner, P. Western*  
PRC2 establishes H3K27me3 at developmental genes in growing oocytes and regulates offspring development rate *abs# 131*
- 11:45 AM **Lauren R Alesi** (*Ovarian Biology Laboratory, Monash Biomedicine Discovery Institute, Department of Anatomy and Developmental Biology, Monash University, Clayton, Victoria, Australia*)  
*A.L. Winship, S. Sant, J.M. Stringer, T. Hegarty, M.J. Griffiths, S. Loi, K.J. Hutt*  
Checkpoint inhibitor immunotherapy diminishes oocyte number and quality: consequences for fertility of female cancer survivors *abs# 132*

- 12:00 PM **Valentina Rodriguez Paris** (*School of Women's & Children's Health, University of New South Wales, Sydney, NSW 2052, Australia*)  
*T. Xiong, M.C. Edwards, B.J. Cochran, K. Rye, W.L. Ledger, V. Padmanabhan, D.J. Handelsman, R.B. Gilchrist, K.A. Walters*  
 Molecular modelling using a PCOS mouse model in combination with androgen receptor knockout mouse models (ARKO) to unravel PCOS pathogenesis *abs# 133*
- 12:15 PM **Kirsten Smith** (*Robinson Research Institute, Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia*)  
*T. Dinh, A. Morimoto, D. Russell, R. Robker*  
 Progesterone receptor regulation of ovulation via respiration, glycolysis, fatty-acid oxidation and cell-specific signaling *abs# 134*

### Lunch + e-Poster Viewing

12:30PM - 1:30PM  
 e-Poster Viewing and Networking

### SRB Student Meeting

12:30PM - 1:30PM  
 Chairs: Meaghan Griffiths & Shenae Cafe

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

### Science at Speed

12:30PM - 1:30PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

The conference acknowledges the support of:



### ESA Meet the Expert - Basic Science

12:35PM - 1:05PM  
 Chairs: Luc Furic & Lisa Philp

Stream C

- 12:35 PM **Wayne D Tilley** (*Dame Roma Mitchell Cancer Research Laboratories, Adelaide Medical School, University of Adelaide, Adelaide, Australia*)  
 Diverse Roles of the Androgen Receptor in Breast and Prostate Cancer *abs# 135*

# A physician-led movement

As part of a global movement, Evolve is a flagship initiative led by physicians and the Royal Australasian College of Physicians (RACP) to drive high-value, high-quality care in Australia and New Zealand.

Evolve is a founding member of Choosing Wisely in Australia and New Zealand, with all Evolve 'Top-Five' recommendations part of the Choosing Wisely campaign.



Evolve aims to reduce low-value care by supporting physicians to:

- be leaders in changing clinical behaviour for better patient care
- make better decisions, and
- make better use of resources.



The Evolve initiative is a partnership between the RACP and specialties to identify their 'Top 5' clinical practices that, in particular circumstances, may:

- be overused
- provide little or no benefit, or
- cause unnecessary harm.



By implementing Evolve, together we can:

- enhance the safety and quality of healthcare
- free up resources to provide patients with the tests, treatment or procedure they do need, and
- contribute to reducing the carbon footprint of the healthcare system.

Don't forget, you may be able to claim CPD credits for Evolve activities, check the MyCPD Framework.

# How Evolve 'Top Five' recommendations are developed

## 6. Review

'Top-Five' recommendations to ensure they remain relevant.

## 5. Implement

the Evolve recommendations, which is led by physicians.

## 4. Share

the 'Top-Five' recommendations with Choosing Wisely and disseminate widely to healthcare professionals.



## 1. Identify

a long list of low-value care practices through evidence and consultation.

## 2. Refine

the list against criteria and consultation feedback to reduce to five priority low-value practices.

## 3. Finalise

the 'Top-Five' recommendations – shining a light on the priority low-value care practices for your specialty.

## Evolve recommendation criteria

A good Evolve recommendation aims to make a difference to the safety and quality of patient care.

In partnership with specialties, we consider if the test, treatment, or procedure is:

- overused, of little or no benefit, or may cause unnecessary harm?
- undertaken mainly by the specialty?
- undertaken with noticeable frequency in the specialty or the health system?

### Is there:

- robust evidence that the practice is used inappropriately, is of limited effectiveness or may be harmful?
- a way to measure outcomes of its implementation?

## What you can do to implement Evolve

- Observe, think, and discuss more while doing less.
- Make Evolve recommendations a routine part of clinical handovers.
- Include Evolve recommendations in education sessions like grand rounds, workshops, clinical case reviews, team meetings and more.
- Include Evolve recommendations in clinical audits and feedback.
- Engage hospital management in implementing Evolve recommendations across the health service.
- Discuss Evolve recommendations with referring doctors and your multidisciplinary care team.
- Encourage organisational and department Evolve Champions to help drive change.
- Share your experiences, ideas and challenges with us and other physicians. **Email us at [evolve@racp.edu.au](mailto:evolve@racp.edu.au)**

## Considering equity

Recommendations should be vigilant of the needs of various populations, including populations with distinct clinical and cultural needs.



## ESA Bryan Hudson Clinical Endocrinology Award

1:10PM - 3:30PM

Stream A

Chairs: Bu Yeap & Ada Cheung

- 1:10 PM **Angela Xun-Nan Chen** (*Endocrinology, Flinders Medical Centre, Bedford Park, SA, Australia*)  
*A. Radhakutty, S. Stranks, C. Thompson, M. Burt*  
Clinical factors affecting insulin dose requirements during treatment of prednisolone-induced hyperglycaemia *abs# 136*
- 1:30 PM **Ayanthi Wijewardene** (*University of Sydney, Sydney, NSW, Australia*)  
*M. Guild, D. Learoyd, M. Sywak, S. Sidhu, P. Roach, G. Schembri, E. Hsiao, J. Hoang, B. Robinson, L. Tacon, R. Clifton-Bligh*  
An algorithm to guide radioactive iodine treatment. *abs# 137*
- 1:50 PM **Emily J Meyer** (*Endocrine and Metabolic Unit, Royal Adelaide Hospital, Adelaide, South Australia, Australia*)  
*M.A. Nenke, M. Chapman, W. Rankin, L.L. Rushworth, D.J. Torpy*  
Corticosteroid-binding globulin deficiency independently predicts mortality and is associated with norepinephrine requirements in septic shock. *abs# 138*
- 2:10 PM **Dahlia Davidoff** (*Royal North Shore Hospital, Kirribilli, Australia*)  
Surveillance improves outcomes for *SDHB* mutation carriers: a multi-centre study *abs# 139*
- 2:30 PM **Nicholas Russell** (*Endocrine Centre of Excellence, Austin Health, Melbourne, VIC, Australia*)  
*R. Hoermann, A. Ghasem-Zadeh, A. Cheung, J. Zajac, D. Handelsman, M. Grossmann*  
Effects of estradiol on bone density and fat mass in men undergoing androgen deprivation therapy for prostate cancer: a randomised placebo-controlled trial *abs# 140*
- 2:50 PM **Renata Libianto** (*Hudson Institute of Medical Research, Clayton*)  
*G. Russell, M. Stowasser, S. Gwini, P. Nuttall, J. Shen, M. Young, P. Fuller, J. Yang*  
Increasing the detection of primary aldosteronism: a prospective study in Australian primary care *abs# 141*
- 3:10 PM **Sarah Catford** (*Hudson Institute of Medical Research, Melbourne*)  
*J. Halliday, S. Lewis, M. O'Bryan, D. Handelsman, R. Hart, J. McBain, L. Rombauts, D. Amor, R. Saffery, R. McLachlan*  
Reproductive and metabolic health of young men conceived using ICSI *abs# 142*

The conference acknowledges the support of:



## ANZBMS Christopher and Margie Nordin Young Investigator e-Poster Award Finalists


1:30PM - 2:18PM

Stream B

Chairs: Peter Ebeling & Kylie Alexander

- 1:30 PM **Nithin Kolanu** (*Garvan Institute of Medical Research, Sydney, NSW*)  
*D. Bliuc, A. Sheu, R.D. Blank, J.D. Adachi, C. Berger, D. Goltzman, D.A. Hanley, R.G. Josse, S.M. Kaiser, C.S. Kovacs, J.C. Prior, T. Tran, J.R. Center*  
Type 2 diabetes, fracture risk and mortality in two longitudinal population-based studies: Dubbo Osteoporosis Epidemiology Study (DOES) and the Canadian Multicentre osteoporosis study (CaMos) *abs# 143*
- 1:36 PM **Tian Nie** (*Department of Medicine, Austin Health, University of Melbourne, Melbourne, Vic, Australia*)  
*V. Venkatesh, S. Golub, J.D. Zajac, M. Grossmann, R.A. Davey*  
Estradiol preserves endocortical and trabecular bone in an adolescent male-to-female mouse model of gender affirming hormone therapy. *abs# 144*

- 1:42 PM **Ahmed Al Saedi** (*Department of Medicine – Western Health, The University of Melbourne, St Albans, VIC, Australia*)  
A. Hayes, R. Kremer, G.G. Duque  
Elucidating the genetic effect of vitamin D on mesenchymal stem cells differentiation and function in vitro *abs# 145*
- 1:48 PM **Ali Ghasem-Zadeh** (*Endocrinology and Medicine, Austin Health, the University of Melbourne, Heidelberg, VIC, Australia*)  
M. Bui, E. Seeman, S. Boyd, S. Iuliano, R. Jaipurwala, P. Mount, N. Toussaint, C. Chiang  
Bone Microarchitecture and Estimated Failure Load are Deteriorated Whether Patients with Chronic Kidney Disease have Normal Bone Mineral Density, Osteopenia or Osteoporosis *abs# 146*
- 1:54 PM **Cassandra Smith** (*Institute for Health and Sport (iHeS), Victoria University, Melbourne, VIC, Australia*)  
J.R. Lewis, M. Sim, W. Lim, E. Lim, L. Blekkenhorst, T.C. Brennan-Speranza, L. Adams, E. Byrnes, G. Duque, I. Levinger, R. Prince  
Osteocalcin, Muscle Function and 15-year Falls-related Hospitalizations in Older Women: The Perth Longitudinal Study of Ageing Women *abs# 147*
- 2:00 PM **Kara B Anderson** (*Deakin University, Geelong, VIC, Australia*)  
K.L. Holloway-Kew, A.G. Betson, J. Gaston, M.A. Kotowicz, W. Liao, M. Henneberg, J.A. Pasco  
Fracture risk and use of angiotensin-converting enzyme inhibitors or angiotensin II receptor blockers *abs# 148*
- 2:06 PM **Amy B P Ribet** (*School of Biomedical Science, UWA, CRAWLEY, WA, Australia*)  
B. Mullin, J. Tan, D. Yagoub, L. Abudulai, P. Ng, N.J. Pavlos  
Proteomics of secretory lysosomes unmasks new regulators of osteoclast function and skeletal bone mass *abs# 149*
- 2:12 PM **Ye Cao** (*Molecular Medicine and Pathology, University of Auckland, Auckland*)  
S.M. Bolam, A.E. Brooks, B.G. Matthews  
Characterising human skeletal stem cell populations in different skeletal compartments *abs# 150*

The conference acknowledges the support of:  ANZBMS

#### ANZBMS Christopher and Margie Nordin Young Investigator e-Poster Award Finalists - Virtual Chat

2:18PM - 3:15PM

Spatial Chat

<https://spatial.chat/s/esasrbanzbms2021>

#### SRB ANZPRA New Investigator

1:30PM - 2:30PM

Stream C

Chairs: Natalie Hannan & Joshua Fisher

- 1:30 PM **Faith Andres** (*The Department of Obstetrics and Gynaecology, Mercy Hospital for Women, University of Melbourne, 163 Studley Road, Heidelberg 3084, Victoria, Australia*)  
S. Tong, N.J. Hannan, S.P. Walker, T.M. MacDonald, P. Cannon, M. Kandel, J. Masci, T. Nguyen, T.J. Kaitu'u-Lino  
Endothelial protein C receptor (EPCR) is deranged in preeclampsia *abs# 151*
- 1:45 PM **Anna L Boss** (*Obstetrics and Gynaecology, University of Auckland, Auckland, New Zealand*)  
L.W. Chamley, A.A. Brooks, J.L. James  
Alterations in placental endothelial and perivascular heterogeneity could contribute to the pathophysiology of fetal growth restriction *abs# 152*

- 2:00 PM **Shanna L Hosking** (*Robinson Research Institute, School of Biomedicine, University of Adelaide, Adelaide, SA, Australia*)  
*H.M. Groome, S.E. O'Hara, E.S. Green, L.M. Moldenhauer, S.A. Robertson, A.S. Care*  
 Regulatory T cells modulate uterine natural killer cells to promote spiral artery remodelling in mice *abs# 153*
- 2:15 PM **Saije K. Morosin** (*School of Biomedical Sciences and Pharmacy, Priority Research Centre for Reproductive Science, University of Newcastle, Newcastle, NSW, Australia*)  
*S.J. Delforce, R.G. Kahl, C. Corbisier de Meaultsart, E.R. Lumbers, K.G. Pringle*  
 A potential role for the (pro)renin receptor and soluble (pro)renin receptor in the pathogenesis of choriocarcinoma *abs# 154*

The conference acknowledges the support of:



### SRB ART Lab Solutions Gamete And Embryo Award

2:30PM - 3:30PM

Stream C

Chairs: Gerard Tarulli & Angelique Riepsamen

- 2:30 PM **Tianpengcheng (Amy) Luan** (*School of BioSciences and Bio21 Institute, The University of Melbourne, Parkville, VIC, Australia*)  
*J. Merriner, A. O'Connor, L. Nagirnaja, D.F. Conrad, R. Burke, M.K. O'Bryan, B.J. Houston*  
 Malate dehydrogenase 1B is a testis enriched energy protein required for sperm function and male fertility *abs# 155*
- 2:45 PM **Erin K Klein** (*Priority Research Centre for Reproductive Science, University of Newcastle, Callaghan, NSW, Australia*)  
*A.J. Gunn, C.P. Stephen, M. Bahrami, A. Swegen, R.J. Aitken, Z. Gibb*  
 Field fertility of a novel bovine sperm storage medium following seven days of ambient temperature storage *abs# 156*
- 3:00 PM **Suliman H Yagoub** (*University of Adelaide, Adelaide, SA, Australia*)  
*B.C. Gibson, J.G. Thompson, K.R. Dunning*  
 Fabrication on the microscale: two-photon polymerised device for microinjection *abs# 157*
- 3:15 PM **Guillaume Burnet** (*School of Biomedical Sciences, The University of Queensland, Brisbane, QLD, Australia*)  
*A. Feng, C. Spiller, J. Bowles*  
 Cripto promotes pluripotency and malignancy of the male germline in mice *abs# 158*

The conference acknowledges the support of:



### ESA Basic Science Orals

1:30PM - 3:30PM

Stream D

Chairs: Mark Cooper & Daniel Bird

- 1:30 PM **Ashley S Meakin** (*Mater Medical Research Institute - University of Queensland, Woolloongabba, QLD, Australia*)  
*M. Gough, Z. Saif, V. Clifton*  
 An *ex vivo* approach to understanding sex-specific differences in placental androgen signalling in the presence and absence of inflammation *abs# 159*
- 1:45 PM **Rutu S Dhavan** (*Biochemistry and Molecular Biology, Biomedicine Discovery Institute, Monash University, Clayton, Victoria, Australia*)  
*K.L. Short, J. Ng, M.J. Wallace, T.J. Cole*  
 Analysis of novel glucocorticoid receptor agonists as potential treatments for preterm birth *abs# 160*

- 2:00 PM **Sarah Davis** (*Westmead Institute for Medical Research, Westmead, NSW, Australia*)  
*J. Gunton*  
 Does Capsaicin "Beige" Human White Fat that has been Transplanted into Mice and Exhibit Improvements in Mouse Metabolism? *abs# 161*
- 2:15 PM **Josephine Yu** (*UNSW, Kensington, NSW, Australia*)  
*R. Laybutt, N.A. Youngson, M.J. Morris*  
 Concurrent Betaine Administration Enhances the Benefits of Exercise in a Mouse Model of Diet-Induced Obesity *abs# 162*
- 2:30 PM **Elias Valbe** (*Biochemistry and Molecular Biology, Monash University, Clayton, VIC, Australia*)  
*T.J. Cole*  
 Characterization of 11bhsd1l a novel member of the 11bhydroxysteroid dehydrogenase enzyme family *abs# 163*
- 2:45 PM **Jianshen Lao** (*Monash University, Clayton, VICTORIA, Australia*)  
*K.L. Short, T.J. Cole, J. Ng*  
 Glucocorticoid regulation of primary ciliogenesis in the developing mouse kidney *abs# 164*
- 3:00 PM **Monica Kanki** (*Cardiovascular Endocrinology Laboratory, Baker Heart & Diabetes Institute, Melbourne, Victoria, Australia*)  
*J. Morgan, A. Rickard, P. Fuller, C. Clyne, M. Young*  
 Oxidative stress promotes glucocorticoid-induced mineralocorticoid receptor (MR) transcriptional activity in cardiomyocytes *abs# 165*
- 3:15 PM **Mitchell A Sullivan** (*Mater Research Institute - The University of Queensland, Brisbane, QLD, Australia*)  
*D.A. McCarthy, N. Flemming, P. Chandrashekar, A.K. Fotheringham, R. Whiddett, N. D'Silva, J. Nisbet, A. Morton, S. Teasdale, N. Isbel, T. Jones, J. Couper, G. Morahan, D.R. Thorburn, M. Harris, D.W. Johnson, A. Cotterill, H. Barrett, T. O'Moore-Sullivan, K. Donaghue, J.M. Forbes*  
 Mitochondrial dysfunction aligns with risk for diabetic kidney disease in youth with type 1 diabetes *abs# 166*

#### **ANZBMS Afternoon Tea**

3:15PM - 3:30PM

e-Poster Viewing and Networking

#### **ESA-SRB Afternoon Tea**

3:30PM - 4:00PM

e-Poster Viewing and Networking

#### **ANZBMS Basic Science Orals**

3:30PM - 5:00PM

Chairs: Mark Forwood & Natalie Butterfield

Stream B

- 3:30 PM **Narelle E McGregor** (*St Vincent's Institute, Fitzroy, VIC, Australia*)  
*B.A. Ryan, B.J. Kirby, I.J. Poulton, A. Al-Tilissi, C.S. Kovacs, N.A. Sims*  
 Production of bone matrix in recovery from bone loss during breast-feeding is independent of 1,25-dihydroxy-Vitamin D<sub>3</sub> (calcitriol) *abs# 167*
- 3:42 PM **Emma K Fletcher** (*The Garvan Institute of Medical Research, Sydney, New South Wales, Australia*)  
*O.P. Skinner, J. Jurczyk, M.P. Hodson, E. Kristianto, Y. Xiao, M.J. Rogers, M.A. Munoz*  
 Bisphosphonate drugs have effects outside the skeleton and inhibit the mevalonate pathway in alveolar macrophages in lung *abs# 168*

- 3:54 PM **Kai Chen** (*The University of Western Australia, Crawley, WA, Australia*)  
S. Liao, V. Kuek, J. Kenny, J. Tickner, N. Pavlos, A. Qin, J. Xu  
Osteoblast-derived egfl6 couples angiogenesis to osteogenesis during bone repair *abs# 169*
- 4:06 PM **Xuzhu Lin** (*Victoria University, Footscray*)  
C. Smith, A. Moreno-Asso, N. Zarekookandeh, T. Brennan-Speranza, G. Duque, I. Levinger  
Combination treatment with undercarboxylated osteocalcin and ibandronate protects against hind-limb immobilisation-induced muscle wasting *abs# 170*
- 4:18 PM **Natalie KY Wee** (*Bone Cell Biology and Disease, St Vincent's Institute of Medical Research, Fitzroy, Victoria, Australia*)  
N.E. McGregor, E.C. Walker, J.H. Gooi, T.J. Martin, D.J. McCarthy, W.A. Phillips, N.A. Sims  
PI3K signaling in Dmp1-expressing cells drives periosteal bone formation and bone strength *abs# 171*
- 4:30 PM **Niloufar Ansari** (*Monash Institute of Pharmaceutical Sciences, Parkville, VIC, Australia*)  
T. Martin, N.A. Sims, A.P. Johnston  
Targeting osteocytes: quantifying their cellular uptake with a high throughput internalisation assay *abs# 172*
- 4:42 PM **Emma C Walker** (*St Vincent's Institute, Fitzroy, VIC, Australia*)  
N.E. McGregor, I.J. Poulton, A. Chan, E. Cho, S. Windahl, N.A. Sims  
Unsuppressed STAT3 signaling in osteocytes exaggerates cortical bone response to mechanical load *abs# 173*

#### ANZBMS Plenary - Bjorn Busse

5:00PM - 5:30PM

Stream B

Chairs: Mark Forwood & Natalie Butterfield

- 5:00 PM **Björn Busse** (*University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany*)  
Bone Quality Assessment in Health and Disease *abs# 174*

The conference acknowledges the support of:



#### ESA Ken Wynne Award Presentation

4:00PM - 4:20PM

Stream A

Chairs: Ann McCormack & Diana Learoyd

- 4:00 PM **Aneta Stefanidis** (*Monash University, Clayton, VIC, Australia*)  
Exploring the mechanisms underlying the metabolic improvements following bariatric surgery *abs# 175*

The conference acknowledges the support of:



#### ESA Young Investigator Scientific Article Award Presentation - Basic Science

4:20PM - 4:40PM

Stream A

Chairs: Ann McCormack & Diana Learoyd

- 4:20 PM **Adam Hagg** (*Baker Heart and Diabetes Institute, Melbourne, Australia*)  
R. Sartori, S. Zampieri, A. Armani, C.E. Winbanks, L.R. Viana, M. Haidar, K.I. Watt, H. Qian, C. Pezzini, P. Zanganeh, B.J. Turner, A. Larsson, G. Zanchettin, E.S. Pierobon, L. Moletta, M. Valmosoni, A. Ponzoni, S. Attar, G.D. Dalt, C. Sperti, M. Kustermann, R.E. Thomson, L. Larsson, K.L. Loveland, P. Costelli, A. Megighian, S. Merigliano, F. Penna, P. Gregorevic, M. Sandri  
Perturbed BMP signalling and denervation promote muscle wasting in cancer cachexia *abs# 176*

The conference acknowledges the support of:



## ESA Young Investigator Scientific Article Award Presentation - Clinical

4:40PM - 5:00PM

Stream A

Chairs: Ann McCormack & Diana Learoyd

- 4:40 PM **Mark Ng Tang Fui** (*Department of Medicine (Austin Health), The University of Melbourne, Victoria, 3084, Australia*)  
*R. Hoermann, K. Bracken, D.J. Handelsman, W.J. Inder, B.G. Stuckey, B.B. Yeap, A. Ghasem-Zadeh, K.P. Robledo, D. Jesudason, J.D. Zajac, G.A. Wittert, M. Grossmann*  
Effect of Testosterone Treatment on Bone Microarchitecture and Bone Mineral Density in Men: A 2-Year RCT *abs# 177*

The conference acknowledges the support of:



## ESA Taft Lecture

5:00PM - 5:55PM

Stream A

Chairs: Ann McCormack & Diana Learoyd

- 5:00 PM **Mirjam Christ-Crain** (*University Hospital of Basel, Basel, Switzerland*)  
New Diagnostic and Therapeutic Options in Vasopressin-Dependent Fluid Disorders *abs# 178*

The conference acknowledges the support of:



## SRB Symposium - Advances in Contraception

4:00PM - 6:00PM Stream C

Chairs: Jessica Dunleavy & Geoffry De Iulius

- 4:00 PM **Lee B Smith** (*College of Engineering, Science and Environment, University of Newcastle, Callaghan, NSW, Australia*)  
Gene Therapy Approaches to Rapidly Manipulate Testis Function *abs# 179*
- 4:30 PM **Darryl Russell** (*Robinson Research Institute, University of Adelaide, South Australia*)  
Genomics and High Throughput Screening Analysis of Progesterone Receptor Action for Discovering Selective Molecular Targets for Blocking Ovulation *abs# 180*
- 5:00 PM **Timothy Jenkins** (*Brigham Young University, Provo, UTAH, United States*)  
Using epigenetics and cell of origin analysis as diagnostics for azoospermia *abs# 181*
- 5:30 PM **Damian k Dowling** (*School of Biological Sciences, Monash University, Clayton, VIC, Australia*)  
Mitochondria, Maternal Inheritance and Implications for Male Reproductive Health *abs# 182*

## SRB Orals - Uterine Biology

4:00PM - 6:00PM

Stream D

Chairs: Guiying Nie & Samson Dowland

- 4:00 PM **Sophea Heng** (*School of Health and Biomedical Sciences, RMIT University, Melbourne, Victoria, Australia*)  
*N. Samarajeewa, S. Paule, Y. Li, H. Van de Velde, M. Hull, B. Vollenhoven, L. Rombauts, G. Nie*  
Discovery of a key regulator of endometrial receptivity for embryo implantation *abs# 183*
- 4:15 PM **Douglas A Gibson** (*Centre for Inflammation Research, MRC/University of Edinburgh, Edinburgh*)  
*P.M. Kirkwood, P.T. Saunders*  
Defining the heterogeneity and function of macrophages during endometrial tissue repair *abs# 184*

- 4:30 PM **Meaghan Griffiths** (*Department of Anatomy and Developmental Biology, Biomedicine Discovery Institute, Monash University, Clayton, Victoria, Australia*)  
A. Winship, F. Cousins, S. Marshall, E. Menkhorst, E. Dimitriadis, A. Care, K. Hutt  
Puma knockout protects the uterus from radiotherapy-mediated damage: implications for fertility preservation for female cancer survivors *abs# 185*
- 4:45 PM **Jennifer C Hutchison** (*Department of Molecular and Translational Science, Monash University, Clayton, VIC, Australia*)  
J. Evans, T. Edgell, G. Nie, D.K. Gardner, L.A. Salamonsen  
Detrimental actions of obesity-associated Advanced Glycation Endproducts on endometrial epithelial cell proliferation are alleviated by antioxidants and are donor-dependent in human endometrial organoids *abs# 186*
- 5:00 PM **Kirsten Shankie-Williams** (*School of Medical Sciences, The University of Sydney, Sydney, New South Wales, Australia*)  
M. Day, L. Lindsay, S. Dowland  
A promising future for the novel zinc IUD now confirmed long acting and reversible in rats *abs# 187*
- 5:15 PM **Jane Girling** (*Gynaecology Research Centre, University of Melbourne Department of Obstetrics and Gynaecology, Royal Womens Hospital, Parkville, VIC, Australia*)  
E.M. Colgrave, J.R. Keast, C.J. Nowell, P.A. Rogers, S.J. Holdsworth-Carson  
Heterogeneity in the distribution of smooth muscle actin, collagen fibres and immune cells associated with superficial peritoneal endometriotic lesions *abs# 188*
- 5:30 PM **Emanuele Pelosi** (*Institute for Molecular Bioscience, The University of Queensland, Brisbane, Queensland, Australia*)  
E. Thomson, P. Koopman  
A novel mouse model of retrograde menstruation for the study of endometriosis *abs# 189*
- 5:45 PM **Wei Zhou** (*Department of Obstetrics and Gynaecology, University of Melbourne, Melbourne, VIC, Australia*)  
E. Menkhorst, E. Dimitriadis  
Jagged1 regulates endometrial receptivity in both humans and mice *abs# 190*

#### **ANZBMS AGM**

5:30PM - 6:00PM

Zoom

*ANZBMS members only*

Login Link: <https://us02web.zoom.us/j/87197758819?pwd=bVJNNEhtTOJ0cGZRM1B3ZXFZRDJpZz09>

Meeting ID: 871 9775 8819

Passcode: 499935

#### **ESA AGM**

6:00PM - 7:00PM

Zoom

*ESA members only*

Login Link: <https://us02web.zoom.us/j/86482503880?pwd=em5CRiJLT25pTUZJY2dod2NiYUINQQT09>

Meeting ID: 864 8250 3880

Passcode: 360797

## WEDNESDAY 24<sup>TH</sup> NOVEMBER 2021

### ESA Blended Orals - Immunotherapy and Vitamin D

8:30AM - 10:00AM

Stream A

Chairs: Nicholas Choo, Jennifer Gunter & Emily Mackenzie

- 8:30 AM **Linda Wu** (*Westmead Hospital, Ryde, NEW SOUTH WALES, Australia*)  
*V. Tsang, S. Sasson, A. Menzies, M. Carlino, D. Brown, R. Mellor, R. Clifton-Bligh, J. Gunton*  
Checkpoint inhibitor associated autoimmune diabetes: an emerging and fulminant form of type 1 diabetes *abs# 191*
- 8:45 AM **Christopher A Muir** (*Faculty of Medicine and Health, University of Sydney, Camperdown, NSW, Australia*)  
*A.M. Menzies, V. Tsang, R. Clifton-Bligh*  
Thyroid peroxidase and thyroglobulin antibodies in thyroid immune related adverse events following immune checkpoint inhibitor treatment. *abs# 192*
- 9:00 AM **Gail Risbridger** (*Prostate Cancer Research Program, Monash Biomedicine Discovery Institute, Dept Anatomy & Developmental Biology, Monash University, Clayton, Victoria, Australia*)  
*R. Taylor, L. Porter, P. Darcy, J. Zhu, J. Trapani, M. (MURAL)*  
Cellular immunotherapy for prostate cancer is a treatment option when AR targeted therapies fail *abs# 193*
- 9:15 AM **Nicholas Russell** (*Austin Health, Heidelberg, VIC, Australia*)  
*J. Allebone, O. Dandash, R. Hoermann, A.S. Cheung, J.D. Zajac, D.J. Handelsman, R. Kanaan, M. Grossmann*  
Effects of estradiol on cognition in men undergoing androgen deprivation therapy for prostate cancer: a randomised placebo-controlled trial *abs# 194*
- 9:30 AM **Carl Jenkinson** (*Andrology, ANZAC Research Institute, Concord, NSW, Australia*)  
*R. Desai, M.D. McLeod, J.W. Mueller, M. Hewison, D.J. Handelsman*  
Measurements of circulating conjugated and unconjugated vitamin D metabolites by enzyme hydrolysis combined with liquid chromatography mass spectrometry *abs# 195*
- 9:45 AM **Jennifer Chen** (*The Westmead Institute for Medical Research, University of Sydney, Westmead, NSW, Australia*)  
*C. Girgis, J. Gunton*  
Ablation of normal vitamin D signalling impairs skeletal muscle regeneration in mice *abs# 196*

### SSR and SRF Exchange Lecturers

8:30AM - 10:00AM

Stream B

Chairs: David Sharkey & Jane Girling

- 8:30 AM **Jorge Lopez-Tello** (*University of Cambridge, Cambridge, United Kingdom*)  
*H.E. Yong, E.R. Christoforou, T. Napso, I. Sandovici, M. Constancia, A. Sferruzzi-Perri*  
Aberrant Igf2-H19 Expression in the Placental Endocrine Zone Increases the Susceptibility of the Mother to Poor Metabolic Health *abs# 197*
- 9:00 AM **Aileen Keating** (*Iowa State University, Ames, IOWA, United States*)  
Mechanisms of Xenobiotic-Induced Ovarian Toxicity *abs# 198*
- 9:30 AM **Gillian Johnson** (*King's College London, London, United Kingdom*)  
Differential Follicle Stimulating Hormone Glycosylation Modulates Pre-Antral Follicle Growth and Survival Rates *abs# 199*

The conference acknowledges the support of:



Society for  
Reproduction  
and Fertility





## SRB Orals - Male Reproductive Tract

8:30AM - 10:00AM

Stream D



Chairs: Mark Hedger & Dagmar Wilhelm

- 8:30 AM **Kelly Walton** (*Monash University, Clayton, VIC, Australia*)  
*B.J. Houston, A.E. O'Connor, D. Wang, G. Goodchild, D. Merriner, H. Luan, D.F. Conrad, K.I. Aston, S. Kliesch, M. Wyrwoll, C. Friedrich, F. Tüttelmann, C.A. Harrison, M.K. O'Bryan*  
Human *INHBB* gene variant (c.1079T>C:p.Met360Thr) alters testis germ cell content, but does not impact fertility in a mouse model *abs# 200*
- 8:45 AM **Rama Ravinthiran** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia*)  
*S. Indumathy, R. Wijayarathna, C. Pleuger, R. Middendorff, A. Meinhardt, K. Loveland, M. Hedger*  
The differential distribution of mononuclear phagocyte populations in the immature and adult murine epididymis is consistent with differences in localised immune responses *abs# 201*
- 9:00 AM **Vincent Harley** (*Hudson Institute of Medical Research, Melbourne, VIC, Australia*)  
*N. Leon Carlos, S. Bagheri-Fam, L. Wong*  
Understanding ATRX role in a specific PML Nuclear Body in testis of a mouse model of ATR-X syndrome *abs# 202*
- 9:15 AM **John E Schjenken** (*Priority Research Centre for Reproductive Science. School of Environmental and Life Sciences, The University of Newcastle, Callaghan, NSW, Australia*)  
*D.A. Skerrett-Byrne, B. Nixon, E.G. Bromfield, J. Breen, N.A. Trigg, S. Stanger, I.R. Berntstein, A.L. Anderson, T. Lord, R.J. Aitken, S.D. Roman, S.A. Robertson*  
Transcriptomic analysis of the seminal vesicle response to the reproductive toxicant acrylamide *abs# 203*
- 9:30 AM **Geoffry N De Iuliis** (*The University of Newcastle, CALLAGHAN, NSW, Australia*)  
*K. Miller, K. Harrison, B. Nixon*  
The male reproductive system is aiding our understanding of how wireless communications networks may be impacting our health *abs# 204*
- 9:45 AM **Andrew J Pask** (*School of BioSciences, University of Melbourne, Melbourne, Vic, Australia*)  
*E. Ciarrocchi*  
Testis development in marsupials is delayed until after birth and may be the driving force behind the unique marsupial mode of reproduction. *abs# 205*

## Morning Tea

10:00AM - 10:30AM

e-Poster Viewing and Networking

The conference acknowledges the support of:  



## ANZBMS National invited speaker - John Kemp

10:15AM - 10:45AM

Stream C

Chairs: Renee Ormsby & Mark Cooper

- 10:15 AM **John Kemp** (*The University of Queensland, St Lucia, QLD, Australia*)  
Using Statistical Genetics Methods in Large Cohorts to Identify Modifiable Risk Factors for Osteoporosis. *abs# 206*

The conference acknowledges the support of:  

**ANZBMS National invited speaker - Ravi Savarirayan**

10:45AM - 11:15AM

Stream C

Chairs: Renee Ormsby & Mark Cooper

- 10:45 AM **Ravi Savarirayan** (*Victorian Clinical Genetics Services, Murdoch Children's Research Institute, University of Melbourne, Parkville, VIC, Australia*)  
Drug Trials In Skeletal Dysplasias *abs# 207*

The conference acknowledges the support of:



**ESA/SRB Plenary**

10:30AM - 11:30AM

Stream A

Chairs: Lisa Akison & Mark Green

- 10:30 AM **Sarah Kimmins** (*McGill University, Montreal, QUEBEC, Canada*)  
Paternal environmental exposures and their influence on development via the sperm epigenome *abs# 208*

The conference acknowledges the support of:



**ESA Clinical Orals**

10:30AM - 12:30PM

Stream D

Chairs: Rebecca Goldstein & Christina Jang

- 10:30 AM **Amy Winship** (*Department of Anatomy & Developmental Biology, Monash University, Clayton, VIC, Australia*)  
*K. Sorby, A. Tran, M. Griffiths, L. Alesi, T. Hegarty, M. Green, K. Hutt*  
Residential proximity to bushfire events in Australia impaired subsequent human oocyte *in vitro* fertilization rates *abs# 209*

- 10:45 AM **Stella Sarlos** (*Centre for Endocrinology & Metabolism, Hudson Institute of Medical Research, CLAYTON, VIC, Australia*)  
*M. Herath, I. Sim, R. Upreti, R. McLachlan, C. Allan*  
Clinical experience of spermatogenesis induction for hypogonadotrophic hypogonadism in a tertiary hospital andrology service. *abs# 210*

- 11:00 AM **Kirsten Neal** (*Endocrinology and General Medicine, Alice Springs Hospital, Alice Springs, Northern Territory, Australia*)  
*S. Glastras, S. Ullah*  
Severity of obesity impacts adverse maternal and neonatal outcomes independent of pre-existing or pregnancy-related diabetes *abs# 211*

- 11:15 AM **Sophia Young** (*School of Biomedical Sciences, Faculty of Medicine, University of Queensland, Brisbane, Queensland, Australia*)  
*L. Gallo, D. Brookes, N. Hayes, M. Maloney, K. Liddle, A. James, K. Mortiz, N. Reid*  
Altered bone mineral content and body composition in children and adolescents with confirmed prenatal alcohol exposure *abs# 212*

- 11:30 AM **Elena J Tucker** (*MCRI, Parville, VIC, Australia*)  
*S. Bakhshalizadeh, K.M. Bell, G. Robevska, J. van den Bergen, S. Jaillard, D. Hock, E.E. Davis, F. Ullah, K. Ayers, R. Sreenivasan, G. Hime, D. Stroud, D.R. Thorburn, J. Christodoulou, P. Touraine, A.H. Sinclair*  
Functional genomics for the discovery and characterisation of genes responsible for premature ovarian insufficiency in Perrault syndrome *abs# 213*

- 11:45 AM **Susan R Davis** (*Women's Health Research Program, School of Public Health and Preventive Medicine, Monash University, Melbourne, VIC, Australia*)  
*M.A. Skiba, R.M. Islam, P.J. Robinson, R.J. Bell*  
Is it time to rethink the criteria for diagnosing PCOS? *abs# 214*

12:00 PM **Amanda Hor** (*Garvan Institute of Medical Research/ St Vincent's Hospital, Maroubra, NSW, Australia*)  
*L. Campbell, A. Viardot*  
Association of gastric emptying time with gut hormones and appetite in Prader-Willi syndrome. *abs# 215*

12:15 PM **Ross J Marriott** (*School of Population and Global Health, University of Western Australia, Nedlands, Western Australia, Australia*)  
*K. Murray, G.J. Hankey, L. Manning, G. Dwivedi, F.C. Wu, B.B. Yeap*  
Longitudinal changes in serum testosterone and sex hormone-binding globulin in men aged 40-69 years from the UK Biobank *abs# 216*

#### **ESA/SRB Symposium - Endocrine Disruptors**

11:30AM - 12:30PM

Stream A

Chairs: Lisa Akison & Mark Green

11:30 AM **Kate L Loveland** (*Monash University and Hudson Institute for Medical Research, Clayton, VIC, Australia*)  
*P. Whiley, M.C. Luu, C. Malliaris, L. O'Donnell, D. Handelsman*  
Do activin A and endocrine disruptors interact to affect testis development? *abs# 217*

11:50 AM **Karla Hutt** (*Monash Biomedicine Discovery Institute, Department of Anatomy and Developmental Biology, Monash University, Clayton, Australia*)  
The Impact of Environmental Toxicants on Female Fertility *abs# 218*

12:10 PM **Roger Hart** (*Univeristy of Western Australia, Subiaco, WA, Australia*)  
The influence of prenatal exposure to endocrine disrupting chemicals on adult health *abs# 219*

#### **ANZBMS Break**

11:15AM - 11:30AM

e-Poster Viewing and Networking

#### **ANZBMS Clinical Orals**

11:30AM - 12:45PM

Stream C

Chairs: Mark Kotowicz & Natalie Hyde

11:30 AM **Friederike Thomasius** (*Frankfurter Hormon und Osteoporosezentrum, , Frankfurt, Germany*)  
*S. Palacios, A. Alam, M. Boolell, R.L. Duckham, F. Vekeman, G. Gauthier*  
Comparison of Fracture Rates and Economic Outcomes by Age Group in Patients with Osteoporosis treated with Risedronate Enteric-Coated versus Immediate Release Bisphosphonates: A claims Data Analysis *abs# 220*

11:42 AM **Terry Diamond** (*St George Hospital, Sydney, NSW, Australia*)  
*W. Clark, P. Bird, E. Barnes, V. GebSKI*  
Health outcomes in elderly individuals with acute severely painful osteoporotic vertebral compression fractures *abs# 221*

11:54 AM **Thach Tran** (*Garvan Institute of Medical Research, Darlinghurst, NSW, Australia*)  
*T. Ho-Le, D. Bliuc, B. Abrahamsen, L. Hansen, P. Vestergaard, J. Center, T. Nguyen*  
Skeletal Age: a new score for fracture risk assessment *abs# 222*

12:06 PM **Nitesh DhaneKula** (*Royal North Shore Hospital, Sydney, NSW, Australia*)  
*G. Crouch, S. Lau, E. Graham, M. Nery, J. Doyle, L. Nairn, K. Byth, A. Ellis, R. Clifton Bligh, C. Girgis*  
The Sydney AFF Score: A Simple Tool to Distinguish Females Presenting with Atypical Femur Fractures versus Typical Femur Fractures *abs# 223*

12:18 PM **Roger Zebaze** (*Monash University, School of Clinical Sciences, Clayton, VIC, Australia*)  
*H. Nguyen, F. Milat, C. Chiang, P. Ebeling*  
Misalignment by producing Ineffective Load Conduction May be Responsible for Atypical Femoral Fractures (AFFs) *abs# 224*

12:30 PM **Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)  
*R. Feldman, M. Oates, T. Thomas, P. Makras, F. Jakob, B. Langdahl, W. Yang, M. Rojas, C. Libanati*  
Romosozumab (Romo) treatment lowers the incidence of new vertebral fractures (Vfx) across all fracture severity grades among women with postmenopausal osteoporosis (PMO) *abs# 225*

#### **ESA-SRB Lunch + e-Poster Viewing**

12:30PM - 1:30PM

e-Poster Viewing and Networking

#### **SRB Awards Session**

12:30PM - 1:00PM

Stream B

Chairs: Jane Fenelon & Moira O'Bryan

#### **ANZBMS Lunch + e-Poster Viewing**

12:45PM - 1:30PM

e-Poster Viewing and Networking

#### **ESA Meet the Expert - Clinical**

12:45PM - 1:15PM

Stream D

Chairs: Frances Milat & Phillip Wong

12:45 PM **Jackie Center** (*Garvan Institute of Medical Research and St Vincent's Hospital, Darlinghurst, NSW, Australia*)  
Tricky Cases in Bone Disease *abs# 226*

#### **ESA Symposium - Adrenal**

1:30PM - 3:30PM

Stream A

Chairs: Timothy Cole & Moe Thuzar

1:30 PM **Angela Cumberland** (*RMIT University, Bundoora, VIC, Australia*)  
Adrenarache - Searching for Mechanistic Understanding of Cause and Consequence. *abs# 227*

2:00 PM **Jun Yang** (*Head, Endocrine Hypertension Group, Hudson Institute of Medical Research*)  
Clinical, Biochemical and Histological Caveats in the Assessment of Primary Aldosteronism *abs# 228*

2:30 PM **Mark S Cooper** (*ANZAC Research Institute, University of Sydney, Concord Hospital, NSW, Australia*)  
'Relative Contributions of De Novo Synthesised and Recycled Adrenal Glucocorticoids' (Zone Fasciculata) *abs# 229*

3:00 PM **Grace Kong** (*Peter MacCallum Cancer Centre, Melbourne, VIC, Australia*)  
Nuclear Imaging and Radionuclide Therapy for Pheochromocytoma and Paragangliomas (PPGL) *abs# 230*

*For more information on adrenal insufficiency please visit <https://addisons.org.au/medicalprofessional/> or contact [info@addisons.org.au](mailto:info@addisons.org.au)*

#### **ANZBMS National invited speaker - Julia Kuliwaba**

1:30PM - 2:00PM

Stream B

Chairs: Kathryn Stok & Ryan Chai

1:30 PM **Julia S Kuliwaba** (*Adelaide Medical School, The University of Adelaide, Adelaide, South Australia, Australia*)  
Beneath the Cartilage: How Bone Tissue Alterations Contribute to Osteoarthritis Progression *abs# 231*

The conference acknowledges the support of:




### ANZBMS National invited speaker - Dawn Aitken

2:00PM - 2:30PM

Stream B

Chairs: Kathryn Stok & Ryan Chai

- 2:00 PM **Dawn Aitken** (*Menzies Institute for Medical Research, University of Tasmania, Hobart, Tasmania, TAS, Australia*)  
Therapeutic Strategies for Osteoarthritis: Lessons Learned from Failed Clinical Trials *abs# 232*

The conference acknowledges the support of: 

### SRB/ANZPRA Symposium - The placenta and serious pregnancy complications

1:30PM - 3:30PM

Stream C

Chairs: Jo James & Peter Mark

- 1:30 PM **Lisa Akison** (*School of Biomedical Sciences, University of Queensland, Brisbane, QLD, Australia*)  
*S. Steane, K. Moritz*  
Sex-specific Changes in the Placenta Associated with Prenatal Alcohol Exposure *abs# 233*
- 2:00 PM **Tony Perkins** (*Griffith University, Southport, QLD, Australia*)  
Selenium and Selenoproteins at the Feto-Maternal Interface *abs# 234*
- 2:30 PM **Camilla Whittington** (*The University of Sydney, The University Of Sydney, NSW, Australia*)  
Convergent evolution of the vertebrate placenta *abs# 235*
- 3:00 PM **Caitlin Wyrwoll** (*The University of Western Australia, Nedlands, WA, Australia*)  
Getting to heart of it: the placental-cardiovascular axis *abs# 236*

### SRB Orals - Advances in Reproduction

1:30PM - 3:30PM

Stream D

Chairs: David Gardner & Kylie Dunning

- 1:30 PM **Ashlee Hutchinson** (*University of Melbourne, Victoria, Australia*)  
*I. Gallego Romero, N. Ibeh, S. Frankenberg, A. Pask*  
Deriving induced pluripotent stem cells (iPSCs) for the Fat-tailed dunnart *abs# 237*
- 1:45 PM **Martin Estermann** (*Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University, Melbourne, Victoria, Australia*)  
*S. Williams, C. Smith*  
Divergent gonadal cell origin and lineage specification in amniotes revealed by single-cell transcriptomics. *abs# 238*
- 2:00 PM **William A Stocker** (*Department of Physiology, Monash Biomedicine Discovery Institute, Monash University, Clayton, Victoria, Australia*)  
*K.L. Walton, K.L. Chan, K.N. Hart, T.B. Thompson, C.A. Harrison*  
Engineering anti-Müllerian hormone (AMH) analogues to preserve female fertility *abs# 239*
- 2:15 PM **Nicola Rivers** (*Monash University, Melbourne, VIC, Australia*)  
*J. Daly, R. Jones, P. Currie, P. Temple-Smith*  
Biobanking reproductive tissue in threatened Australian fish species *abs# 240*
- 2:30 PM **Katie Ayers** (*Murdoch Childrens Research Institute, Parkville, Vic, Australia*)  
*S. Pachernegg, I. Knarston, N. Charitakis, G. Robevska, I. Ghobrial, P. Er, M. Takasato, E. Georges, A. Joergensen, A. Combes, M. Little, A. Sinclair*

A novel *in vitro* differentiation protocol for human embryonic gonadal organoids as a disease model for differences of sex development. *abs# 241*

2:45 PM **Liza O'Donnell** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, Victoria, Australia*)

*D. Rebourcet, I. Stévant, P. Sararols, B. Lawrence, S. Nef, L.B. Smith*

The effects of acute *in vivo* LHCGR stimulation on adult mouse Leydig cells *abs# 242*

3:00 PM **Amita G Ghadge** (*Discipline of Surgery, Adelaide Medical School, The Queen Elizabeth Hospital, University of Adelaide, Woodville, Adelaide, SA, Australia*)

*P. Dasari, D.J. Sharkey, R.L. Robker, W.V. Ingman*

The developmental origins of mammographic density and breast cancer risk *abs# 243*

3:15 PM **Yasmyn E Winstanley** (*The Robinson Research Institute, University of Adelaide, Adelaide, SA, Australia*)

*D.L. Russell, R.L. Robker*

Telomere elongation during embryogenesis is regulated by oocyte mitochondria *abs# 244*

#### **ANZBMS Basic Science Orals**

2:30PM - 3:00PM

Stream B

Chairs: Kathryn Stok & Ryan Chai

2:30 PM **Hsu-Wen HWT Tseng** (*Mater Research Institute-The University of Queensland, Brisbane, Queensland, Australia*)

*I.I. Kulina, D.D. Girard, J.J. Gueguen, C.C. Vaquette, M.M. Salga, W.W. Fleming, B.B. Jose, S.S. Millard, A.A. Pettit, K.K. Schroder, L.L. Wheeler, F.F. Genêt, S.S. Banzet, G.G. Thomas, K.K. Alexander, J.J. Levesque*

Interleukin-1 is overexpressed in injured muscles following spinal cord injury and promotes neurogenic heterotopic ossification *abs# 245*

2:42 PM **Benjamin H Mullin** (*Dept. of Endocrinology & Diabetes, Sir Charles Gairdner Hospital, Nedlands, WA, Australia*)

*K. Zhu, S. Mullin, S.J. Brown, F. Dudbridge, N.J. Pavlos, J.P. Walsh, J. Xu, S.G. Wilson*

Leveraging osteoclast genetic regulatory mechanisms to identify genes with a role in osteoarthritis *abs# 246*

#### **ANZBMS Afternoon Tea**

3:00PM - 3:30PM

e-Poster Viewing and Networking

#### **ESA Afternoon Tea**

3:30PM - 3:45PM

e-Poster Viewing and Networking

#### **SRB Afternoon Tea**

3:30PM - 4:00PM

e-Poster Viewing and Networking

#### **ANZBMS National invited speaker - Nathan Pavlos**

3:30PM - 4:00PM

Stream B

Chairs: Melissa Cantley & Michael Rogers

3:30 PM **Nathan Pavlos** (*The University of Western Australia, Nedlands, WA, Australia*)

Role of Molecular Transporters in Bone Homeostasis and Disease *abs# 247*

The conference acknowledges the support of:



### ANZBMS Basic Science Orals

4:00PM - 4:30PM

Stream B

Chairs: Melissa Cantley & Michael Rogers

4:00 PM **Alex Barker** (*Clinical & Health Sciences, University of South Australia, Adelaide, SA, Australia*)  
*H. Tsangari, R. Bright, C.F. Jones, R.D. Quarrington, D. Barker, T. Brown, K. Vasilev, P.H. Anderson*  
Mimicking the Dragonfly Wing-Like Structure as an Antimicrobial Surface for Orthopaedic Devices *abs# 248*

4:12 PM **Hisatoshi Ishikura** (*University of Tokyo, Bunkyo-ku, Tokyo, JAPAN, Japan*)  
*R. Chijimatsu, H. Okada, Y. Suzuki, J. Miyahara, Y. Omata, F. Yano, S. Tanaka, T. Saito*  
Motion is essential to maintain the synovial condition and joint homeostasis *abs# 249*

### ANZBMS Awards & Closing Ceremony

4:30PM - 5:00PM

Stream B

Chairs: Itamar Levinger & Natalie Sims

### ESA Hot Topics COVID19 Symposium

3:45PM - 5:45PM

Stream A


Chairs: Helen Barrett & Elizabeth Johnstone

3:45 PM **Kirsty G Pringle** (*Priority Research Centre for Reproductive Sciences, School of Biomedical Sciences & Pharmacy, University of Newcastle and Pregnancy and Reproduction Program, Hunter Medical Research Institute, Newcastle, NSW, Australia*)  
The Protective Role of ACE2 in Pregnancy *abs# 250*

4:15 PM **Kirsty Short** (*University of Queensland, Kenmore, QLD, Australia*)  
Respiratory Viral Infections and Diabetes *abs# 251*

4:45 PM **Lisa Philp** (*Australian Prostate Cancer Research Centre - Queensland, Institute of Health and Biomedical Innovation, School of Biomedical Sciences, Queensland University of Technology, Princess Alexandra Hospital, Translational Research Institute, Brisbane, QLD, Australia*)  
The Intersection of AR Signalling and COVID-19 *abs# 252*

5:15 PM **Louise Burrell** (*University of Melbourne, Melbourne, VIC, Australia*)  
ACE2 and Vascular Health Including Recent Studies on COVID-19 *abs# 253*

The conference acknowledges the support of: 

### SRB Symposium - Novel Technologies in Reproduction

4:00PM - 6:00PM

Stream C

Chairs: Kate Loveland & Reza Nosrati

4:00 PM **Kylie Dunning** (*Robinson Research Institute and Adelaide Medical School, University of Adelaide, Adelaide, South Australia, Australia*)  
Determining Embryo Health with a Light Touch *abs# 254*

4:30 PM **Robin Hobbs** (*Hudson Institute of Medical Research, Clayton, VIC, Australia*)  
Maintenance and regeneration of the male germline *abs# 255*

5:00 PM **Mariana Media Sanchez** (*Leibniz Institute for Solid State and Materials Research, Dresden Sachsen, Germany*)  
Medical Microrobots: A New Paradigm Shift Towards In-Vivo Assisted Fertilization *abs# 256*

5:30 PM **Robert Gorkin III** (*University of Wollongong, Wollongong, NSW, Australia*)  
Novel Technologies in Reproduction *abs# 257*

## SRB Orals - Sperm Biology

4:00PM - 5:30PM

Stream D

Chairs: Shaun Roman & Nicole McPherson

- 4:00 PM **Samuel R Cheers** (*School of Biological Sciences, Monash University, Clayton, Victoria, Australia*)  
*M.S. Oud, M.J. Xavier, G.W. van der Heijden, L. Batty, B. Alobaidi, M.K. O'Bryan, J.A. Veltman*  
Identifying monogenic causes of male infertility *abs# 258*
- 4:15 PM **Brendan J Houston** (*Bio21 Institute, Parkville, VIC, Australia*)  
*A.E. O'Connor, J. Merriner, A. Lopes, J. Gonçalves, L. Nagirnaja, D.F. Conrad, M.K. O'Bryan*  
AXDND1 is a novel dynein adapter protein essential for sperm production and function *abs# 259*
- 4:30 PM **Róisín Griffin** (*Priority Research Centre for Reproductive Science, University of Newcastle, NSW, Australia*)  
*Z. Gibb, J. Clulow, N. Smith, M. Baker, R. Aitken, A. Swegen*  
Investigation into the sperm proteomic profiles of fertile, infertile, and severely sub-fertile stallions reveals several putative biomarkers of fertility *abs# 260*
- 4:45 PM **Lucas B Hoffmann** (*The Florey Institute of Neuroscience and Mental Health, Carlton, VIC, Australia*)  
*C.C. Fernandez, E. McVicar, M.B. Clark, A.J. Hannan, T.Y. Pang*  
Elevated paternal glucocorticoids preconception contributes to intergenerational shifts in male attractiveness and major urinary protein expression *abs# 261*
- 5:00 PM **Jessica EM Dunleavy** (*School of BioSciences, University of Melbourne, Parkville, VIC, Australia*)  
*A.E. O'Connor, H. Okuda, D. Merriner, M.K. O'Bryan*  
KATNB1 is a master microtubule regulator in male meiosis and haploid germ cell development *abs# 262*
- 5:15 PM **Josephine Bowles** (*School of Biomedical Sciences, The University of Queensland, Brisbane, QLD, Australia*)  
*R.A. Davila, A. Feng, G. Burnet, D. Harkins, T. Harvey, C. Spiller, M. Piper*  
Constitutive deletion of NFIX results in defective progression through meiosis within the mouse testis *abs# 263*

## ESA Closing Ceremony & Awards

5:45PM - 6:15PM

Stream A

Chairs: Aneta Stefanidis & Bu Yeap

## SRB Closing Ceremony

6:00PM - 6:10PM

Stream C

Chair: Moira O'Bryan



## Basic Science e-Posters

**Ashleigh Carolan** (*Hudson Institute of Medical Research, Clayton, VIC, Australia*)

*S. Chu, P.J. Fuller*

A combination therapeutic approach to GCT *abs# 300*

**Charmaine Cheung** (*The Westmead Institute for Medical Research, Westmead, NSW, Australia*)

*H. Burns, J. Gunton*

Dietary fats and the implication of type 2 diabetes *abs# 301*

**Abby Yee Shen Choo** (*Centre of Endocrine and Metabolism, Hudson Institute, Clayton, Victoria, Australia*)

*T. Nguyen, P.J. Fuller, S. Chu*

The development of total inhibin assay for monitoring ovarian cancer recurrence using mass spectrometry *abs# 302*

**Nicholas Choo** (*Monash Biomedicine Discovery Institute Cancer Program, Prostate Cancer Research Group, Department of Anatomy and Developmental Biology, Monash University, Clayton, VIC, Australia*)

*S. Ramm, J. Luu, M. Investigators, R.A. Taylor, G.P. Risbridger, K.J. Simpson, M.G. Lawrence*

A high-throughput imaging assay for drug screening of 3D prostate cancer organoids *abs# 303*

**Georgia Cuffe** (*Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute Cancer Program, Monash University, Clayton, VIC, Australia*)

*A. Clark, M. Richards, M. (MURAL), R. Taylor, G. Risbridger, A. Joshua, M. Lawrence*

Bipolar Androgen Therapy induces heterogeneous changes in the abundance and localisation of the androgen receptor in advanced prostate cancer *abs# 304*

**Zhuoer Li** (*Monash Partners Comprehensive Cancer Consortium, Monash Biomedicine Discovery Institute Cancer Program, Prostate Cancer Research Group, Monash University, Melbourne, Victoria, Australia*)

*R. Toivanen, M. Investigators, D. Clouston, G. Risbridger, R. Taylor*

Establishment of neuroendocrine prostate cancer xenografts for preclinical testing *abs# 305*

**Orlen Mulia** (*Hudson Institute of Medical Research, Clayton, VICTORIA, Australia*)

*T. Nguyen, P.J. Fuller, S. Chu*

Estrogen receptor  $\beta$ : a potential therapeutic target in adult granulosa cell tumours *abs# 306*

**Luz Patricia Muñoz de la Torre** (*Laboratorio de Fisiología Reproductiva, FES Zaragoza, UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, CIUDAD DE MEXICO, MEXICO*)

*A. Trujillo Hernández, J. Eguibar, C. Cortes, L. Morales Ledesma*

Characterization of the kisspeptin and GnRH expression in the hypothalamus of the male and female taiep rat, an animal model of demyelination *abs# 307*

**Diane Rebourcet** (*Priority Research Centre for Reproductive Science, The University of Newcastle, Callaghan, NSW, Australia*)

*L.B. Smith*

A pioneering approach to regulate steroid production using light. *abs# 308*

**Emel Rothzerg** (*Perron Institute / University of Western Australia, NEDLANDS, WESTERN AUSTRALIA, Australia*)

*J. Xu, D. Wood, X. Ho, A. Märtsen, S. Köks*

Identification of novel antisense long non-coding RNAs in osteosarcoma: hidden gems *abs# 309*

**Mitchell A Sullivan** (*Mater Research Institute - The University of Queensland, Brisbane, QLD, Australia*)

*B. Goh, U. Cheung, E. Tejo, R. Whiddett, A.K. Fotheringham, D.A. McCarthy, T. Mullins, S. Le Bagge, P. Chandrashekar, K. Sokolowski, B. Tse, J.M. Forbes*

Targeting mitochondrial dysfunction for the prevention of diabetic kidney disease *abs# 310*

**Trang Tran** (*Hudson Institute of Medical Research, Clayton, VIC, Australia*)

*T. Nguyen, D. Leung, M. Alexiadis, A. Carolan, O. Mulia, P.J. Fuller, S. Chu*

Differential gene expression analysis after PPAR $\gamma$  activation and XIAP inhibition identifies upregulation of metabolic processes in KGN cells *abs# 311*

**Brittany Vining** (*Monash University, Melbourne, VICTORIA, Australia*)

*A. Reyes, A. Symon, Z. Ming, J. Ryan, V. Harley*

Platform for genome modification in human multipotent cell line *abs# 312*

## Clinical e-Posters

**Matthew Balcerek** (*Department of Endocrinology and Diabetes, Royal Brisbane and Women's Hospital, Herston, QLD, 4029*)

*C. Low, M. d'Emden*

Perhexiline-associated hypoglycaemia *abs# 313*

**Nada Bechara** (*Department of Diabetes and Endocrinology, Blacktown-Mt Druitt Hospital, Blacktown, NSW, Australia*)

*J. Gunton, V. Flood, T. Hng, C. McGloin*

Associations between nutrients and foot ulceration in diabetes: a systematic review *abs# 314*

**Jessica Bindra** (*Department of Endocrinology, Blacktown Hospital, Sydney, NSW, Australia*)

*T. Hng*

An audit of emergency thyroidectomies for thyrotoxicosis: Local experience at Blacktown Hospital *abs# 315*

**Lipi Chakravorty** (*Department of Endocrinology and Diabetes, Fiona Stanley Hospital, Murdoch, WA, Australia*)

*M. Mccann, W. Davis, P. Fegan, E. Hamilton*

Diabetes complications and comorbidity screening in patients hospitalised with diabetes-related foot disease *abs# 316*

**Karan Chauhan** (*Medicine, Monash University, School of Clinical Sciences, Clayton, Victoria, Australia*)

*E. Schachna, R. Libianto, J. Ryan, H. Hutton, P.J. Fuller, P.G. Kerr, S. Wilson, J. Yang*

Screening for primary aldosteronism underutilised in a cohort of patients with chronic kidney disease *abs# 317*

**Juliana Chen** (*Macquarie University Faculty of Medicine, Macquarie University, NSW, Australia*)

*C. Dean, R. Lord, V.A. Preda*

Outcomes of an integrated care approach for patients at our multidisciplinary weight management clinic extending through COVID-19 initial lockdown. *abs# 318*

**Kay Hau Choy** (*Department of Endocrinology and Diabetes, Barwon Health, Geelong, VIC, Australia*)

*S. Gwini, F. Gunawan, M. Kotowicz*

The impact of a revised DKA protocol on the prevalence of hypokalaemia in a tertiary teaching hospital: a before-and-after study *abs# 319*

**Kay Hau Choy** (*Department of Endocrinology and Diabetes, Barwon Health, Geelong, VIC, Australia*)

*M. Kotowicz*

Hypophosphataemia in association with the treatment of diabetic ketoacidosis: predictive significance of severity of acidosis at presentation *abs# 320*

**Susan Davis** (*School of Public Health and Preventative Medicine, Monash, Melbourne, VIC, Australia*)

*C. Klipping, I.J. Duijkers, D. Apter, M. Jost, J. Foidart*

Patient satisfaction and endocrine and metabolic effects of estetrol, a novel estrogen, in combination with drospirenone for contraception *abs# 321*

**Ha Mai** (*Liverpool hospital, Sydney, NSW, Australia*)

*J. Tremonti, K. Ngui, A. Kelly, S. Frost, G. Hassett, C. El-Haddad*

'If I have another fall, I could break my leg' - the experience and perspectives of patients with non-hip minimal trauma fractures *abs# 322*

**Gaurav Ghosh** (*Sir Charles Gairdner Hospital WA, Nedlands, WA, Australia*)

*S. Carrivick, R. Wardrop, E. Lim*

Interpretative dance: Improving the clinical utility of IGF-1 based on locally derived reference intervals *abs# 323*

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

*M. Chan, J. Gajera, B. Lurie, Z. Gandomkar, R. Clifton-Bligh*

Risk stratification of indeterminate thyroid nodules using ultrasound and machine learning algorithms *abs# 324*

**Nardeen S Habashy** (*Endocrinology, Nepean Hospital, Kingswood, NSW, Australia*)

*I. Kopp, U. Mahfuza, G.K. Low, E.J. Hibbert*

Inpatient Hypoglycaemia: Not A Benign Event. A Case Control Study *abs# 325*

**Si Yun Regina Hong** (*The University of Western Australia, Perth, WA, Australia*)

*G.J. Smith, P.A. Fournier, N. Paramalingam, H.C. Roby, L.A. Davis, T.W. Jones, V.B. Shetty*

Assessment of Glycaemic Profiles 24 hours following Exercise of Different Intensities in Individuals with Type 1 Diabetes *abs# 326*

**Amanda Hor** (*Westmead Hospital, Sydney, NSW*)

*W. Cheung*

COVID-19 and Diabetes: A 1 year Follow-Up *abs# 327*

**Elaine Jayadiwangsa** (*Endocrinology, Lyell McEwin Hospital, Elizabeth Vale, South Australia*)

*A. Radhakutty, A. Zimmermann, P. Mah*

Phaeochromocytoma- a single centre experience *abs# 328*

**Kyle R Joseph** (*General Surgery, University of Sydney, Sydney, NSW, Australia*)

*G. Eslick, S. Edirimanne*

An emphasis on the increased morbidity and mortality in elderly patients with thyroid cancer undergoing thyroidectomy – a meta-analysis study *abs# 329*

**Kyle R Joseph** (*Nepean Hospital, Kingswood, NSW, Australia*)

Current Trends in Thyroid Cancer Diagnoses in Australia *abs# 330*

**Shaveen Kariyawasam** (*Hudson Institute of medical Research, Hudson Institute of Medical Research, Clayton, Victoria, Australia*)

*M. Young, M. Stowasser, D. Cowley, S. Gwini, K. Long, J. Yang*

Quality of Life of patients with Primary Aldosteronism treated with MR antagonists compared to ENaC inhibitors *abs# 331*

**William Kovacevic** (*Department of Diabetes & Endocrinology, Blacktown-Mt Druitt Hospital, Western Sydney Local Health District, NSW*)

*T. Hng, A. Duke MD, FRACP*

Glycaemic control and pregnancy outcomes in a multicultural cohort of women with type 1 diabetes *abs# 332*

**Sneha Krishna** (*Gold Coast University Hospital, Southport, QLD, Australia*)

*P. Davoren*

An eight year audit on hypertriglyceridaemia-induced pancreatitis management *abs# 333*

**David Lewis** (*Endocrinology, Macquarie University Hospital, Sydney, NSW, Australia*)

*V. Preda, B. Fivelman, T. Preda, M. Preda*

Beware small thyroid nodule not just what but where *abs# 334*

**Mike Lin** (*Department of Diabetes and Endocrinology, Ryde Hospital, Ryde, NSW, Australia*)

*K.W. Ho*

Opioid induced androgen deficiency in an outpatient clinic *abs# 335*

**Abhir K Nainani** (Department of General Practice , Monash University, Melbourne , Victoria , Australia)

*J. Yang, G. Russell, S. Peters*

General practitioner perspectives and experiences when screening for primary aldosteronism in hypertensive patients *abs# 336*

**Divya Namboodiri** (Liverpool Hospital, NSW, Australia)

*V. Manoharan, N. Lau*

A young woman with childhood onset bone pain and late diagnosis of Hereditary Hypophosphatemic Rickets with Hypercalciuria *abs# 337*

**Elisabeth Ng** (Department of Endocrinology, Monash Health, Clayton, Victoria, Australia)

*R. Libianto, K. Choy, J. Shen, P. Fuller, J. Yang*

Aldosterone, renin and ARR variability in the detection of primary aldosteronism *abs# 338*

**Elisabeth Ng** (Department of Endocrinology & Diabetes, Alfred Health, Melbourne, Australia)

*J. Chew, M. Pace, D. Topliss*

Outcomes of nodule evaluation in a thyroid nodule and cancer clinic *abs# 339*

**Wenjing Ni** (Nanjing University of Chinese Medicine, Nanjing, JIANGSU PROVINCE, China)

*S. Xu, C. Liu*

Microwave ablation for primary hyperparathyroidism and its effect on bone metabolism in 20 patients *abs# 340*

**Brendan J Nolan** (Endocrinology, Austin Health, Heidelberg, Victoria, Australia)

*M.I. Balcersek, A. Brownhill, P. Wong, P. Locke, J.D. Zajac, A.S. Cheung*

Feminising hormone therapy regimens and cardiovascular risk factors in older transgender individuals *abs# 342*

**Brendan J Nolan** (Endocrinology, Austin Health, Heidelberg, Victoria, Australia)

*J. Proietto, P. Sumithran*

A retrospective review of testosterone treatment in adult men with Prader-Willi syndrome *abs# 343*

**Brendan J Nolan** (Endocrinology, Austin Health, Heidelberg, Victoria, Australia)

*J. Proietto, P. Sumithran*

A retrospective review of intensive weight loss interventions for treatment of obesity in people with Prader-Willi syndrome *abs# 344*

**Brendan J Nolan** (Endocrinology, Austin Health, Heidelberg, Victoria, Australia)

*S. Simpson, L. Li, P. Locke, J.D. Zajac, A.S. Cheung*

Prescription patterns and testosterone concentrations achieved with AndroForte 5 testosterone cream for trans and gender diverse individuals *abs# 345*

**Brendan J Nolan** (Endocrinology, Austin Health, Heidelberg, Victoria, Australia)

*A.S. Frydman, M. Carroll, M. Grossmann, J.D. Zajac, A.S. Cheung*

Effects of micronised progesterone on sleep, psychological distress and breast development in transgender individuals: a prospective case-control study *abs# 346*

**Mayurapriya Raviskanthan** (Endocrinology, Royal Melbourne Hospital, Melbourne, VIC)

*J. King, S. Furlanos, C. Yates*

Craniopharyngioma surgical resections and their management: a single centre experience from 2010 to present *abs# 347*

**Mayurapriya Raviskanthan** (Endocrinology, Royal Melbourne Hospital , Melbourne)

*M. Felder, S. Furlanos, C. Chiang, C. Yates*

Optimizing Dynamic StudieS in EndocrinologyY (ODYSSEY): An Endocrine nurse initiative - Preliminary data *abs# 348*

**Mayurapriya Raviskanthan** (Endocrinology, Royal Melbourne Hospital, Melbourne, VIC)

*M. Felder, S. Furlanos, C. Chiang, C. Yates*

The Identification and Management of Adult Growth hormone INsufficiEncy (IMAGINE): an Endocrine nurse initiative - Preliminary data *abs# 349*

**Gemma Scholes** (Department of Medicine, Alfred Health, Melbourne, Victoria, Australia)

*E. Ng, L. Bach, S. Sztal-Mazer*

A mixed insulin regimen can address glucocorticoid-induced hyperglycaemia *abs# 351*

**Pravik Solanki** (Department of Endocrinology, Monash Health, Clayton, Victoria)

*R. Libianto, G. Gabb, S. Gwini, J. Shen, M.J. Young, P.J. Fuller, J. Yang*

Risky business: calculated cardiovascular risk underestimates real risk in hypertensive patients with primary aldosteronism *abs# 352*

**Venessa Tsang** (Endocrinology Department, Royal North Shore Hospital, St Leonards, NSW, Australia)

*M.L. Gild, A. Gill, B. Lurie, L. Blumer, R. Siddall, R. Clifton-Bligh, B. Robinson*

Selpercatinib treatment of RET mutated cancers is associated with gastrointestinal adverse effects on radiology and histology *abs# 355*

**Rita Upreti** (St Vincent's Hospital, Melbourne)

*L. Butler, L. Rando, S. Tan, E. Chew*

Venous thromboembolism in transgender individuals: a case series *abs# 356*

**Mawson Wang** (Department of Endocrinology, Blacktown Hospital, Blacktown, NSW, Australia)

*D. Namboodiri, T. Hng*

An audit of inpatient endocrinology admissions and consultations at a metropolitan hospital *abs# 357*

**Mawson Wang** (Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia)

*D.R. Chipps*

Audit of selective arterial calcium stimulation with right versus bilateral hepatic venous sampling: a single-site experience *abs# 358*

**Udai Wijetunga** (Endocrinology and Diabetes Unit, Colombo South Teaching Hospital, Colombo, Sri Lanka)

*T. Wijeratne, V. Wellala, L. Vijeyakumar, A. Gunawardena, G. Abeyasinghe, U. Bulugahapitiya*

Effect of bariatric surgery on serum triglyceride levels in obese Sri Lankan adults: A follow up of 18 months *abs# 359*

**Elizabeth Wootton** (Internal Medicine Services, Royal Brisbane & Women's Hospital, Brisbane, Queensland, Australia)

*Q. Truong, M. Balcerak, S. Lazarus*

A Retrospective Review of Short Synacthen Test Requesting Patterns in Queensland Public Hospitals *abs# 360*

**Yu-Fang Wu** (Department of Endocrinology, Westmead Hospital, Sydney, NSW, Australia)

*H. Smith*

Challenges in Oncofertility – Manipulation of the hypothalamic-pituitary-ovarian axis to provide an opportunity for future pregnancies *abs# 361*

## Clinical Cases e-Posters

**Yasir Aldhaher** (Department of Endocrinology and Diabetes, University hospital Geelong, Geelong, Victoria, Australia)

*M. Mohammad Ebrahim, M. Kotowicz*

Lithium induced silent thyroiditis *abs# 362*

**Ahmed Almuwais** (Princess Alexandra Hospital, Greenslopes, QLD, Australia)

*A. Irani, H. Gibbons*

Immune checkpoint inhibitor induced diabetes mellitus with Pembrolizumab *abs# 363*

**Claudia Ashkar** (Department of Endocrinology and Diabetes, Alfred Health, Melbourne, Victoria, Australia)

*S. Sztal-Mazer, S. Davis*

The negative impacts of depot medroxyprogesterone acetate on perimenopausal symptoms and bone mineral density in mid-life *abs# 364*

**Jessica Bindra** (Department of Endocrinology, Blacktown Hospital, Sydney, NSW, Australia)

*P. Fookerah, S. Lau*

When tissue is the issue: A case of adrenocortical cancer, neurofibromatosis type 1 and gender affirming hormone therapy *abs# 365*

**Lauren Burrage** (Department of Endocrinology and Diabetes, Royal Brisbane and Women's Hospital, Brisbane, QUEENSLAND, Australia)

*A. Love, S. Lazarus*

An under-recognised association: hypocalcaemia and intravenous iron polymaltose *abs# 366*

**Lauren Burrage** (Endocrinology, Sunshine Coast Health Service, Sunshine Coast, Queensland, Australia)

*B. Sillars*

An unusual growth in the thyroid *abs# 367*

**Nicholas Yong Nian Chee** (Department of Endocrinology, Monash Health, Melbourne, VIC, Australia)

*J. Yang, R. Libianto, J. Doery, I. Simpson, W. Chong, S. Grodski, P. Fuller*

An adrenal dilemma : to resect or not to resect ? *abs# 368*

**Rebekah R Chew** (Southern Adelaide Local Health Network, Bedford Park, SA, Australia)

*J.T. Ho*

A Tale of Two Adenomas: A Case of Autonomous Cortisol Secretion *abs# 369*

**Kay Hau Choy** (Department of Endocrinology and Diabetes, Barwon Health, Geelong, VIC, Australia)

*S. Chalak, R. Cao, M. Obaid, T. Wong, J. Flack*

Dilated cardiomyopathy associated with thyroid storm due to Graves' disease *abs# 370*

**Kay Hau Choy** (Department of Endocrinology and Diabetes, Barwon Health, Geelong, VIC, Australia)

*K. Benson*

Diabetes and illicit drug use: severe diabetic ketoacidosis associated with cocaine ingestion *abs# 371*

**Lucy Collins** (Department of Diabetes and Endocrinology, Royal Melbourne Hospital, Melbourne, Victoria, Australia)

*J. Jolley, R.D. Barmanray, C. Seymour, S. Fourlanos, P. Wraight*

Lower limb amputations in patients with diabetes-related foot complications in the COVID-19 pandemic *abs# 372*

**Davide Conti** (CCDHB - Wellington hospital, Wellington, WELLINGTON, New Zealand)

Double-Hit lymphoma presenting as acute pituitary failure *abs# 373*

**Emma E Croker** (Department of Endocrinology, John Hunter Hospital, New Lambton, NSW, Australia)

*Y. Mikaheal, K. Murray, H. MacCallum, H. Tan, A. Borbolla Foster, J. Luu, K. Wynne*

Severe Hypercalcaemia in Pregnancy and Lactation – Like Mother, Like Baby? *abs# 374*

**Difei Deng** (Endocrinology, Nepean Hospital, Kingswood, NSW, Australia)

*M. Luttrell*

An unusual case of syndrome of inappropriate secretion of anti-diuretic hormone (SIADH) associated with Gradenigo syndrome from acute otitis media *abs# 375*

**Ryan Endall** (Department of Endocrinology, Monash Health, Melbourne)

*M. Herath, R. Upreti, A. Watts, S. Catford*

Gender affirming endocrine care at a victorian tertiary centre *abs# 376*

**Ryan Endall** (Department of Endocrinology, Monash Health, Melbourne)

*S. Sarlos, I. Sim, R. McLachlan, C. Allan, R. Upreti*

Venous thromboembolic disease in klinefelter syndrome: a case series *abs# 377*

**Amelia R Fernandes** (*Department of Endocrinology, Royal Prince Alfred Hospital, Camperdown, NSW, Australia*)  
A. Hsieh

To block or not to block? The diagnostic and management dilemma of paraganglioma pheochromocytoma predisposition syndrome in the setting of dopamine agonist therapy *abs# 378*

**Kate Flentje** (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Hobart, Tasmania, Australia*)  
R. Gogna, G. Stilwell, A. McCallum

Refractory Hypocalcaemia after Roux-en-Y gastric bypass surgery in a patient with pre-existing Hypoparathyroidism *abs# 379*

**Kate Flentje** (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Hobart, Tasmania, Australia*)  
R. Gogna, A. McCallum

Milk alkali syndrome in a young woman with Gastro-oesophageal reflux after Laparoscopic gastric banding *abs# 380*

**Gaurav Ghosh** (*Sir Charles Gairdner Hospital WA, Nedlands, WA, Australia*)  
C. Ariyawansa, K. Chikkaveerappa

Paraneoplastic hyperthyroidism in a man with testicular cancer *abs# 381*

**Gaurav Ghosh** (*Sir Charles Gairdner Hospital WA, Nedlands, WA, Australia*)  
J. Anil, E. Lim

Hypopituitarism due to lymphocytic hypophysitis *abs# 382*

**Kate Flentje** (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Hobart, Tasmania, Australia*)  
R. Gogna, J. Burgess

A case of recurrent hyperparathyroidism after parathyroidectomy with autotransplantation *abs# 383*

**Kate Flentje** (*Department of Diabetes and Endocrinology, Royal Hobart Hospital, Hobart, Tasmania, Australia*)  
R. Gogna, J. Burgess

A Hairy Case of Elevated Androgens in a Hirsute Woman *abs# 384*

**Joanna YR Gong** (*Department of Diabetes and Endocrinology, Royal Melbourne Hospital, Parkville, Victoria, Australia*)  
L. Collins, B. Engelbogen, C. Seymour, P.R. Wraight

Beware asymmetric limb pain in an individual with diabetes *abs# 385*

**Louise Goodall** (*Department of Endocrinology, The Canberra Hospital, Canberra, ACT, Australia*)  
T. Greenaway

What not to expect when you're expecting *abs# 386*

**Louise Goodall** (*Prince of Wales Hospital, SYDNEY, NSW, Australia*)  
B. Depczynski, S. Lau

Hypercalcaemia in granulomatous disease with response to Cinacalcet *abs# 387*

**Hikaru Hashimura** (*Endocrinology, Monash Health, Clayton*)  
P.J. Fuller

Treatment resistant prolactinomas - Can we ever achieve normality? *abs# 388*

**Arunan Sriravindrarajah** (*Royal Prince Alfred Hospital, Sydney, NSW, Australia*)  
A. Fernandes, T. Wu, S. Hocking

The role of SGLT2 inhibitors in achieving glycaemic control in maturity-onset diabetes of the young type 3 *abs# 389*

**Su Win Htike** (*Endocrine and Diabetes Department, The Canberra Hospital, Canberra, ACT, Australia*)  
M. Blackburn

Bilateral adrenal myelolipomas: When is the right time for surgical intervention? *abs# 390*

**Su Win Htike** (*Endocrine and Diabetes Department, The Canberra Hospital, Canberra, ACT, Australia*)  
S. Perampalam, S. Wigg, M. Salib

A clinical case of Graves' oscillations *abs# 391*

**Elaine Jayadiwangsa** (Endocrinology , Lyell McEwin Hospital , Elizabeth Vale, South Australia )

*P. Vora*

A Hairy Affair *abs# 392*

**Kyle R Joseph** (Nepean Hospital, Kingswood, NSW, Australia)

Vaccine induced autoimmune thyroiditis resulting in Hoffmann Syndrome and pseudorhabdomyolysis *abs# 393*

**Yee Wen Kong** (St Vincent's Hospital Melbourne, Fitzroy, VIC, Australia)

*M. Lee*

Gestational thyroid storm with pulmonary hypertension in setting of molar pregnancy *abs# 394*

**Sneha Krishna** (Gold Coast University Hospital, Southport, QLD, Australia)

*P. Davoren*

Case report: erythropoietin for successful management of postural hypotension secondary to diabetic autonomic neuropathy *abs# 395*

**Shehil Kumar** (Endocrinology Department, St George Public Hospital, SYDNEY, New South Wales, Australia)

*M. Melek, P. Rohl*

Hypoglycaemia due to metastatic insulinoma in an insulin-dependent type 2 diabetic patient successfully treated with Lutate *abs# 396*

**Justin J Lee** (Department of Endocrinology, Austin Health, Heidelberg, Victoria, Australia)

*A.M. Warren, J.D. Zajac*

A pharmacological Conn artist: The hazards of licorice in complementary medicine *abs# 397*

**David Lewis** (Endocrinology, Macquarie University Hospital, Sydney, NSW, Australia)

*V. Preda, D. Learoyd*

A TRAb for young players thyroid autoantibodies in chronic lymphocytic leukaemia *abs# 398*

**David Lewis** (Endocrinology, Macquarie University Hospital, Sydney, NSW, Australia)

*V. Preda, J. Gilchrist, D. Sabanathan, T. Preda*

Interference in oestradiol immunoassay results a role for liquid chromatography-mass spectrometry *abs# 399*

**David Lewis** (Endocrinology, Macquarie University Hospital, Sydney, NSW, Australia)

*V. Preda, A. Di Ieva, S. Corbett-Burns, M. Rodriguez*

Craniopharyngioma with early recurrence insuring remission *abs# 400*

**Mike Lin** (Department of Diabetes and Endocrinology, Ryde Hospital, Ryde , NSW, Australia)

*K.W. Ho*

Euglycaemic ketoacidosis post COVID vaccination in patient with diabetes mellitus on SGLT2 inhibitor *abs# 401*

**Jean C Lu** (Endocrinology and Diabetes, Austin Health , Melbourne , Victoria, Australia)

*J.D. Zajac, G. Chong, M. Grossmann*

Rapid development of Cushing's syndrome following peptide receptor radionuclide therapy with <sup>177</sup>Lu-DOTATATE in a case of metastatic pancreatic neuroendocrine tumour *abs# 402*

**Jean C Lu** (Endocrinology and Diabetes, Austin Health , Melbourne , Victoria, Australia)

*J.D. Zajac*

5-alpha-reductase inhibitor therapy in a case of Kennedy's disease *abs# 403*

**Matt W Lumchee** (Diabetes & Endocrinology, Princess Alexandra Hospital, Woolloongabba, QLD, Australia)

*L.J. Hayes*

Adrenal ganglioneuroma – a case of a rare benign entity with atypical imaging features *abs# 404*

**Matthew W Lumchee** (Diabetes & Endocrinology, Princess Alexandra Hospital, Woolloongabba, QLD, Australia)

*W.J. Inder*

Plurihormonal TSH and growth hormone secreting pituitary macroadenoma *abs# 405*



**Jinghang Luo** (*Endocrinology and Diabetes, Western Health, Melbourne, VIC, Australia*)

*E. Boehm, C.J. Yates, D. Kevat, S. Hamblin, I. Lee*

Apparent primary aldosteronism: a case of mistaken identity *abs# 406*

**Dianna Luong** (*School of Medicine, University of Queensland, Brisbane, Queensland, Australia*)

*M. Thomas, S. Thomas, S. Bayman, S. Chitturi*

Successful parathyroidectomy for primary hyperparathyroidism in the first trimester of pregnancy: case report and review of the literature *abs# 407*

**Varun Manoharan** (*Diabetes and Endocrine Service, Liverpool Hospital, NSW*)

*D. Namboodiri, H. Russell, V. Wong*

Alemtuzumab-induced Graves' disease *abs# 408*

**Manik J Mayadunne** (*Endocrinology, Concord Repatriation General Hospital, Concord, NSW, Australia*)

*. Wijayawardana, E. Newman, E. Verner, K. Ganda, E. Fuentes*

Plasmapheresis as a bridge to urgent thyroidectomy in a patient with Type 2 Amiodarone Induced Thyrotoxicosis: A case report and review of literature. *abs# 409*

**James McNeil** (*Endocrinology, Lyell McEwin Hospital, Adelaide, South Australia, Australia*)

*G. Cehic, L. Altus, P. Mah*

Refractory hypokalaemia - An unusual case of a metastatic neuroendocrine tumour *abs# 410*

**Lauren Moll** (*Endocrinology Unit, Greenslopes Private Hospital, Brisbane, QLD, Australia*)

*G. Daley, R. Chambers, T. Martin, L. Meehan, G. Ward, A. Barbour, K. Sangla, G. Hockings*

Adrenal cushing's syndrome with bilateral adrenal lesions: A comparative case study with adrenal vein sampling *abs# 411*

**Jack A Morris** (*Department of Endocrinology, Wollongong Hospital, Wollongong, NSW, Australia*)

*T.H. Diamond, M. Reyes, P.G. Rohl, C. Theocharous*

Case report: A rare case of hypoglycaemia due to endogenous hyperinsulinism *abs# 412*

**Huajing Ni** (*Andrology, Concord Hospital, Sydney, NSW, Australia*)

*R. Schmidli, S. Savkovic, J. Hetherington, R. Desai, D.J. Handelsman*

Depot GnRH antagonist for long-term treatment of ovarian hyperthecosis with diagnosis and efficacy established by multi-steroid liquid chromatography-mass spectrometry profiling *abs# 413*

**Marc Nies** (*School of Medicine and Public Health, University of Newcastle, Newcastle, NSW, Australia*)

*R. Palaniappan, Y. Mikaheal, X. Zhen, K. Wynne*

Give steroids! Or don't, it depends: Pitfalls of adrenal insufficiency. *abs# 414*

**Shalini Nilajgi** (*Specialist Medical Centre, Norwood, SA, Australia*)

*N. Kasmeridis*

A missed case of TSH producing pituitary macroadenoma *abs# 415*

**Jacynta O'Rourke** (*Launceston General Hospital, Launceston, Tasmania, Australia*)

*W. Yeoh, H. Nguyen*

Gestational Diabetes Insipidus: The importance of treating the clinical signs and not just the numbers. *abs# 416*

**Yeung-Ae Park** (*Department of Diabetes and Endocrinology, Royal Melbourne Hospital, Parkville, Victoria, Australia*)

*N. Lafontaine, S. Fourlanos*

PTH-independent hypercalcaemia due to Pneumocystis jiroveci pneumonia in a renal transplant recipient *abs# 417*

**Cecilia Pham** (*Endocrinology, Eastern Health, Melbourne, VIC, Australia*)

*C. Gilfillan, A. Sakthivel*

Progressive panhypopituitarism: A case of IgG4-Related Hypophysitis *abs# 418*

**Lisa Raven** (Department of Endocrinology, St Vincent's Hospital, Darlinghurst, NSW, Australia)

*R. Dear, J. Greenfield*

Posterior pituitary metastasis from breast carcinoma: a rare presentation in the absence of diabetes insipidus *abs# 419*

**Lisa Raven** (Department of Endocrinology, St Vincent's Hospital, Darlinghurst, NSW, Australia)

*P. Martin, J. Greenfield*

An unusual association: papillary and follicular thyroid carcinoma with Graves' thyrotoxicosis and orbitopathy *abs# 420*

**Mayurapriya Raviskanthan** (Endocrinology Unit, Eastern Health, Melbourne)

*C. Gilfillan*

A series of insulinomas *abs# 421*

**Mayurapriya Raviskanthan** (Endocrinology, Royal Melbourne Hospital, Melbourne, VIC)

*C. Yates*

Is this MEN4? A novel *CDKN1B* mutation in a patient with a clinical diagnosis of MEN1 *abs# 422*

**Matthew Sawyer** (Department of Endocrinology & Diabetes, St Vincent's Hospital Melbourne, Fitzroy, VIC, Australia)

*C. Jung*

Hypercalcaemia – a basic case in point *abs# 423*

**Nicholas Shoung** (Endocrinology, Princess Alexandra Hospital, Brisbane, QLD, Australia)

*E. Brooks*

A case of pseudohypercalcaemia secondary to paraproteinaemia *abs# 424*

**Isabelle K Smith** (The Canberra Hospital, Ainslie, ACT, Australia)

Hormonal Heartbreak *abs# 425*

**Naomi Szwarcbard** (Department of Endocrinology & Diabetes, Alfred Hospital, Melbourne, VIC)

*A. Davis, L. Bach, K. Hackman*

Adrenal gland haemorrhage following motor vehicle accident with resultant adrenal insufficiency *abs# 426*

**Alanna Tan** (Department of Endocrinology, Austin Health, Heidelberg, VIC, Australia)

*K. Bate, M. Ng Tang Fui, C. Chiang, M. Grossmann*

A dopamine-secreting subcarinal paraganglioma *abs# 427*

**Alanna Tan** (Department of Endocrinology, Austin Health, Heidelberg, VIC, Australia)

*L. Lau*

Primary hypophysitis with syndrome of inappropriate ADH and rhabdomyolysis in a previously well man *abs# 428*

**Varun Manoharan** (Diabetes and Endocrine Service, Liverpool Hospital, NSW)

*M. Thambyaiyah, H. Russell*

Non-islet cell tumour hypoglycaemia: a rare but serious paraneoplastic syndrome *abs# 429*

**Matthew J Verheyden** (Department of Diabetes and Endocrinology, Royal North Shore Hospital, St Leonards, NSW, Australia)

*N. Rodrigo, A.J. Gill, S.J. Glastras*

A case series and literature review of Necrobiosis lipoidica diabetorum *abs# 430*

**Sneha Vidyasagar** (Endocrinology, Toowoomba Hospital, Toowoomba, QLD, Australia)

*D. Gowda, A. Hsieh*

Y am I Male *abs# 431*

**Jovitta William** (Endocrinology, Geelong endocrinology and diabetes, Geelong, VIC, Australia)

*J. Galanos, K. Cukier, N. Harrison, P. McKelvie*

A long awaited diagnosis *abs# 432*

**Mimi Wong** (Department of Endocrinology, Gold Coast University Hospital, Gold Coast, Queensland, Australia)

P. Davoren

The benefit of leftovers following bilateral adrenalectomy for Cushing's disease *abs# 433*

**Mikey Xie** (Royal Prince Alfred Hospital, Camperdown, NSW, Australia)

A. Hsieh

A case of metastatic adrenocortical carcinoma with sustained clinical response following immunotherapy and review of current treatment options *abs# 434*

**Cindy Yu** (Dept of Diabetes and Endocrinology, Ipswich Hospital, Queensland)

T. Dover

Metastatic papillary thyroid carcinoma in pregnancy *abs# 435*

**Xi May Zhen** (Department of Endocrinology, Royal Prince Alfred Hospital, Camperdown, NSW, Australia)

J. Wong, S. Thillainadesan, N. Perera, S. Twigg

Assessment of adrenocortical dysfunction in the context of hypoalbuminaemia: a case report and review of the literature *abs# 436*

**Jasmine J Zhu** (Endocrine Centre of Excellence, Austin Health, Melbourne, Victoria, Australia)

S. Dean, U. Hafeez, S. Neoh

Thymic carcinoid in a patient with multiple endocrine neoplasia type 1 *abs# 437*

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## SRB E-POSTER LISTING

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### SRB Hudson Institute ECR & MCR Poster e-Posters

**Siena Barton** (Department of Obstetrics and Gynaecology, University of Melbourne, Parkville, VIC, Australia)

W. Zhou, L. Santos, S. Varshney, E. Dimitriadis

miR-23b-3p is involved in regulating human endometrial receptivity implying a role in implantation *abs# 62*

**Xian Chen** (Department of Obstetrics and Gynaecology, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong SAR, China)

Y. Lee, W. Yeung, E. Ng, R. Li, K. Lee

High-throughput in vitro screening identified Nemadipine-A that suppressed embryo implantation in vitro and in vivo *abs# 63*

**Jacinta H Martin** (School of Biomedical Sciences and Pharmacy, Priority Research Centre for Reproductive Science, Mothers and Babies Research Centre, Hunter Medical Research Institute, University of Newcastle, Newcastle, New South Wales, Australia)

R. Mohammed, D.A. Skerrett-Byrne, S.J. Delforce, C. Corbisier, J.G. Almazic, N.M. Verrills, A.N. Stephens, E. Dimitriadis, Y. Wang, E.R. Lumbers, K.G. Pringle

Role of the prorenin receptor in endometrial cancer cell growth *abs# 64*

**Ruby Oberin** (Hudson Institute of Medical Research, Clayton, VICTORIA, Australia)

Z. Qu, H. Bildscoe, T. Tsai, E. Jarred, S. Petautsching, S. Pederson, D. Adelson, N. McGregor, N.A. Sims, P.S. Western

Altered epigenetic programming of oocytes modulates offspring growth and accelerates bone development *abs# 65*

**Sigrid Petautsching** (Hudson Institute for Medical Research, Clayton, VIC, Australia)

E. Jaehne, R. Oberin, T. Tsai, E. Jarred, S. Pederson, D. Adelson, M. van den Buuse, P. Western

Polycomb-dependent epigenetic programming in the oocyte modulates brain development and behaviour in offspring *abs# 66*

**Shanti Gurung** (*The Ritchie Centre, Hudson Institute of Medical Research, Clayton, VIC, Australia*)

*J. Piskopos, C. Gargett, J. Werkmeister*

Human endometrium derived mesenchymal stem cells and exosome: understanding their phenotype for therapeutic prospects *abs# 68*

**Tessa Lord** (*University of Newcastle, Callaghan, NSW, Australia*)

*C. Oliveira, I.R. Berntstein, S.J. Stanger, N. Skillen, B. Nixon*

Investigating a role for the hypoxia-inducible factor EPAS1 in spermatogonial stem cell function *abs# 69*

**Rukmali Wijayarathna** (*Centre For Reproductive Health, Hudson Institute of Medical Research, Melbourne, Victoria, Australia*)

*E. de Geus, R. Sreenivasan, R. Genovese, P. Hertzog, M.P. Hedger*

Anti-viral defences in the male reproductive tract: Expression and localisation of the novel type I interferon epsilon *abs# 70*

**Wai Shan Yuen** (*Biomedicine Discovery Institute, Clayton, VIC, Australia*)

*Q. Zhang, J. Dunleavy, I. Lee, D. Adhikari, M. O'Bryan, J. Carroll*

The canonical Katanin complex is essential for fertility during early embryonic mitoses but not in meiosis *abs# 71*

## **Assisted reproductive technology - stem cells e-Posters**

**Carl CC Campugan** (*Robinson Research Institute, Adelaide, South Australia, Australia*)

*M.M. Lim, D.D. Chow, C.T. Tan, K.K. Dunning, E.E. Schartner, K.K. Dholakia, J.J. Thompson*

The effect of discrete wavelengths of visible light on the developing murine embryo *abs# 500*

**Connor Cason** (*The University of Newcastle, CALLAGHAN, NSW, Australia*)

*B. Nixon, D. Skerrett-Byrne, T. Lord*

Characterising novel growth factor receptors in the spermatogonial stem cell population *abs# 501*

**Nicole McPherson** (*Freemasons Center for Male Health and Wellbeing, Adelaide, SA, Australia*)

*A. Saini, H. Hamilton, D. Zander-Fox, L. Pacella-Ince, H. Bakos*

Can we make SpermFAST? Improving sperm function to increase fertilisation rates after *in vitro* fertilisation. *abs# 502*

**Wed WS Salah** (*Centre for Developmental and Regenerative Medicine, Kolling Institute, University of Sydney, NSW, Australia, St Leonards, NSW, Australia*)

*S. Seeho, G. Ahmad*

The effect of *in vitro* culturing environment on the regulation of histone acetylation in the preimplantation embryo *abs# 503*

**Pradeep Tanwar** (*School of Biomedical Sciences and Pharmacy, University of Newcastle, Callaghan, NSW, Australia*)

*A. Ghosh, R. Mohammed*

Defining the niche for vaginal epithelial stem cells. *abs# 504*

**Emma G Whatley** (*School of BioSciences, University of Melbourne, Parkville, Victoria, Australia*)

*A.J. Harvey, D.K. Gardner*

The ketogenic diet may impair embryonic developmental programming via beta-hydroxybutyrate mediated metabolic and epigenetic aberrations *abs# 505*

## **Gene regulation e-Posters**

**Rafiatu Azumah** (*Discipline of Obstetrics and Gynaecology, School of Medicine, Robinson Research Institute, The University of Adelaide, Adelaide, SA 5005, Australia*)

*K. Hummitzsch, M.D. Hartanti, J.C. St. John, R. Anderson, R.J. Rodgers*

Analysis of upstream regulators, networks and pathways associated with the expression patterns of polycystic ovary syndrome candidate genes during fetal ovary development *abs# 506*

**Hon Yeung (Dexter) Chan** (*Robinson Research Institute and School of Medicine, University of Adelaide, Adelaide, SA, Australia*)

*K.L. Foyle, J. Breen, J.E. Schjenken, S.A. Robertson*

RNA-sequencing demonstrates the effects of seminal fluid on uterine transcriptome at implantation and identifies  $\gamma/\delta$ T cells as the top regulated immune cell population in mice *abs# 507*

**Thao Dinh** (*Robinson Research Institute, Adelaide, South Australia, Australia*)

*B. Nicol, J. Breen, H. Yao, R. Robker, D. Russell*

Progesterone receptor regulates ovarian granulosa cell transcription during ovulation through interaction with RUNX1 and chromatin remodelling action *abs# 508*

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

*A. Darbey, G. Chensee, N. Reed, S. Parameswaran, B. Lawrence, S. Smith, L.B. Smith, D. Rebourcet*

Leydig Cell Glucocorticoid Receptor is Required to Maintain Steroidogenesis in Adulthood *abs# 509*

**Ishiguro Kei-ichiro** (*Kumamoto University, Chuo-ku, KUMAMOTO, Japan*)

Sexually different mechanisms of meiotic cell cycle in mammalian germ cells *abs# 510*

**Jooa Kwon** (*School of BioSciences, The University of Melbourne, Parkville, VIC, Australia*)

*T. Ishihara, J.C. Fenelon, T. Newman, G. Shaw, M.B. Renfree*

TH/INS: A possible marsupial-specific imprinted domain *abs# 511*

**Thi T Truong** (*University of Melbourne, Parkville, VIC, Australia*)

*A.J. Harvey, D.K. Gardner*

Antioxidants in preimplantation mouse embryo culture and vitrification media support a more in vivo-like gene expression profile in fetal liver and placenta post-transfer *abs# 512*

## **Growth factors/Cytokines/Immune system e-Posters**

**Sneha Biniwale** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Melbourne, Victoria, Australia*)

*R. Wijayarathna, S. Bhushan, K.L. Loveland, A. Meinhardt, M. Hedger*

New insights into the immunological roles of macrophages adjacent to the rete testis and tunica albuginea *abs# 513*

**Samira Hosseini** (*Department of Molecular and Translational Sciences, Centre for Reproductive Health, Monash University, Clayton, VIC, Australia*)

*S. Moody, K. Loveland*

T cells frequency, localisation and interactions during fetal mouse testis development *abs# 514*

**Hannah E Lyons** (*Robinson Research Institute & Adelaide Medical School, The University of Adelaide, Adelaide, SA, AUSTRALIA*)

*D.J. Sharkey, S.A. Robertson*

Spermatozoa interact with ectocervical epithelial cells to modulate cytokine production *abs# 515*

**Monique H Rayhanna** (*The University of Sydney, Sydney, NSW, Australia*)

*M.B. Morris, M.L. Day*

Endogenous sphingosine 1-phosphate (S1P) signalling via the S1P<sub>1</sub>R is essential for mouse preimplantation embryo development *in vitro abs# 516*

**Natalie Turner** (*Centre for Children's Health Research, School of Biomedical Sciences, Faculty of Health, The Queensland University of Technology, Brisbane, Queensland, 4029, Australia.*)

*P. Abeyasinghe, H. Peiris, K. Vaswani, N. Cameron, N. McGhee, P. Sadowski, M.D. Mitchell, J. Logan*

Blood plasma-derived small extracellular vesicles as markers of immune dysregulation in cattle: a tool for improving reproductive outcomes *abs# 517*

## Male reproductive tract e-Posters

**Samuel M Cripps** (*Biosciences, The University of Melbourne, Parkville, VIC, Australia*)

*S.A. Marshall, D.M. Mattiske, A.J. Pask*

Investigating a potential link between developmental exposures to estrogenic-EDCs and risk of erectile dysfunction *abs# 525*

**Bethany J Finger** (*School of BioSciences, University of Melbourne, Parkville, VIC, Australia*)

*S. Ilango, G.G. Prewer, A.J. Harvey, M.P. Green*

Chronic butylparaben exposure alters fetal testis gene expression and post-natal growth in male mice *abs# 526*

**Vincent Harley** (*Center for Genetic Medicine Research, Children's National Hospital, Washington DC, USA*)

*A. Parivesh, J. Ryan, B. Vining, A. Reyes, E. Délot, E. Vilain*

Reprogramming human fibroblasts into Sertoli cells: functional analysis *abs# 527*

**Ben M. Lawrence** (*Priority Research Centre for Reproductive Science, The University of Newcastle, Callaghan, NSW, Australia*)

*L.B. Smith, D. Rebourcet*

Blockage of the classical and backdoor androgen production pathways indicates a third pathway in mice *abs# 528*

**Deidre M Mattiske** (*University of Melbourne, University Of Melbourne, VIC, Australia*)

*M. Chai, A.J. Pask*

Transgenerational effects on male reproduction following exposure to an endocrine disrupting chemical, diethylstilbestrol *abs# 529*

**Sarah C Moody** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia*)

*E. Dimitriadis, K.L. Loveland*

Utilising human fetal gonad cultures to understand TGF $\beta$  superfamily signalling and origins of gonadal pathologies *abs# 530*

**Cassy M Spiller** (*University of Queensland, Brisbane, QLD, Australia*)

*M. Kam Draskau, C. Feng, T. Svingen, J. Bowles*

Exposure to agricultural azoles disrupts retinoid signalling in fetal rodent testes *abs# 531*

**Gerard A Tarulli** (*School of BioSciences, The University of Melbourne, Parkville, Victoria, Australia*)

*D.M. Mattiske, G. Shaw, A.J. Pask, M.B. Renfree*

A novel hedgehog signalling network during penis development *abs# 532*

## Native/Exotic species biology e-Posters

**Ebony Ciarrocchi** (*School of Biosciences, The University of Melbourne, Parkville, VIC, Australia*)

*L.E. Cook, A.J. Pask*

Gonadal development and germ cell migration in the fat-tailed dunnart (*Sminthopsis crassicaudata*) *abs# 533*

**Jessica S Dudley** (*Macquarie University, NSW, Australia*)

*M.B. Renfree, O.W. Griffith*

An inflammatory reaction occurs at attachment during marsupial pregnancy: expression of MUC1 in tammar wallaby uterine epithelial cells (*Macropus eugenii*) *abs# 534*

**Ashlee Hutchinson** (*University of Melbourne, Victoria, Australia*)

*J. Fenelon, L. Cook, K. Beilby, A. Pask*

Characterising the marsupial oviduct: a complete metabolite, protein and hormone profile for the Fat-tailed dunnart during oestrous *abs# 535*

**Linda Shearwin-Whyatt** (*School of Biological Science, University of Adelaide, Adelaide, SOUTH AUSTRALIA, Australia*)

*J. Galbraith, K. Shearwin, H. Yu, J. Fenelon, D. Adelson, M. Renfree, F. Grutzner*

Characterisation of the candidate monotreme sex determining gene Y-localised Anti-Müllerian Hormone (*Amhy*) *abs# 536*

**Isabella Wilson** (University of Adelaide, Adelaide)

T. Perry, R. Eisenhofer, P. Rismiller, M. Shaw, F. Grutzner

Changes in the pouch microbiome during lactation of the short-beaked echidna (*Tachyglossus aculeatus*) *abs# 537*

## **Oocyte/Follicle development/Corpus luteum e-Posters**

**Anthony Bird** (Department of Anatomy and Physiology, University of Melbourne, Melbourne, VIC, Australia)

J. Kaburaki, P. Bernard, J. Le, F. Kamali, A. Pask, P. Western

Folliculogenesis and oocyte survival in mammalian ovaries is dependent on ATP6AP2 *abs# 538*

**Xuebi Cai** (Monash Biomedicine Discovery Institute, Clayton, ACT, Australia)

J. Stringer, A. Winship, N. Zerafa, J. Carroll, K. Hutt

TOP3A is required for the maintenance of the ovarian follicular reserve and oocyte quality *abs# 539*

**Darren Chow** (Robinson Research Institute, Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia)

C. Tan, K. Dholakia, K. Dunning

Optical assessment of the effect of aneuploidy on oocyte and embryo metabolism. *abs# 540*

**Emily R Frost** (Sex Development Lab, Hudson Institute for Medical Research, Oakleigh East, VIC, Australia)

G. Taylor, S. Boeing, M.A. Baker, R. Lovell-Badge, J.M. Sutherland

Identifying the cell cycle-related factors in the pregranulosa cells driving primordial follicle activation *abs# 541*

**Edwina F Lawson** (The University of Newcastle, Callaghan, NSW, Australia)

M.Garg, C.G. Grupen, M.A. Baker, R.J. Aitken, A. Swegen, Z. Gibb

A comparison of the fatty acid composition of equine follicular fluid from different sized preovulatory follicles. *abs# 542*

**Megan Lim** (Australian Research Council Centre for Nanoscale BioPhotonics, The University of Adelaide, Adelaide, South Australia, Australia)

H. Brown, R. Rose, J. Thompson, K. Dunning

Investigating the molecular control of oxygen supply during oocyte maturation *abs# 544*

**Maria B Marinova** (School of Medical Sciences, UNSW Sydney, Sydney, New South Wales, Australia)

W. Ho, M.J. Bertoldo, V. Lovric, K. Selesniemi, A. Brown, D. Wong, D.A. Sinclair, K. Walters, W.R. Walsh, R.B. Gilchrist, L.E. Wu

NMN supplementation rescues fertility and bone strength in chemotherapy-treated mice *abs# 545*

**Ngoc Tho Tony Nguyen** (Ovarian Biology Laboratory, Department of Anatomy and Developmental Biology, Biomedicine Discovery Institute, Monash University, Clayton, VIC, Australia)

J. Stringer, Q. Wang, A. Winship, L. Alesi, B. Finger, N. Zerafa, X. Cai, J. Flaws, M. Green, K. Hutt

Chronic multi-generational atrazine exposure effects female mouse health and fertility *abs# 546*

**Alexandra E Peters** (Priority Research Centre for Reproductive Science, Schools of Biomedical Science & Pharmacy and Environmental & Life Sciences, University of Newcastle, Callaghan, New South Wales, Australia)

S.J. Caban, E.A. McLaughlin, S.D. Roman, K.G. Pringle, E.G. Bromfield, B. Nixon, J.M. Sutherland

Dysfunction of macroautophagy and mitophagy in the aged oocyte *abs# 547*

**Charley-Lea L Pollard** (School of Veterinary Science, The University of Sydney, Camden, NSW, Australia)

A. Younan, A. Swegen, Z. Gibb, C.G. Grupen

Insights into the NAD<sup>+</sup> biosynthesis pathways involved during the in vitro maturation of porcine oocytes *abs# 548*

**Anmol Saini** (Adelaide Biomedical School & Robinson Research Institute, The University of Adelaide, Adelaide, South Australia, Australia)

N. McPherson, M. Nottle

GM-CSF during in vitro oocyte maturation increases mitochondrial activity in cumulus oocyte complexes *abs# 549*

**Annie Whitty** (The University of Adelaide, Adelaide, SOUTH AUSTRALIA, Australia)

K. Dunning, K. Kind, M. Nottle

The effect of colony stimulating factor 1 on in vitro oocyte maturation *abs# 550*

**Dr. Mustafa M ZAKARIA** (*Vice Executive Director and Administrative Coordinator of the Association for Scientific Research of the IRIFIV-AISRG , Association for Scientific Research of the IRIFIV-AISRG , Casablanca, Morocco*)  
D. ZARQAOU, D. LOUANJLI  
Follicular Fluid Aspiration and Oocyte retrieval techniques, Several Flushing, difficulty Situations Damage risk to the cumulus complex and complications *abs# 551*

## **Pregnancy/Parturition/Placenta e-Posters**

**Nikhilesh Bappoo** (*Vascular Engineering Laboratory, Harry Perkins Institute of Medical Research, Nedlands, WA, Australia*)  
Y. Tongpob, R. Crew, L. Kelsey, B. Doyle, C. Wyrwoll  
Glucocorticoids prevent normal flow deceleration in feto-placental vasculature and impair placental oxygen diffusion during late pregnancy in the rat *abs# 552*

**Lucy A Bartho** (*Griffith University, Southport, QLD, Australia*)  
J.J. Fisher, J.S. Cuffe, T.V. Perkins  
Post-term pregnancy is associated with increases in senescence and mitochondrial adaption through elevated MFN1 and MFN2 expression in placental tissue. *abs# 553*

**Georgia S Clarke** (*Nutrition, Diabetes & Gut Health, Lifelong Health Theme, South Australian Health and Medical Research Institue, adelaide, South Australia, Australia*)  
S.R. Ladyman, R.L. Young, K.L. Gatford, A.J. Page  
Nutrient-sensing components of the mouse intestine during pregnancy *abs# 554*

**Bianca R Fato** (*Therapeutics Discovery and Vascular Function Group, Heidelberg, Victoria, Australia*)  
N. de Alwis, N.K. Binder, S. Beard, S. Tong, T.J. Kaitu'u-Lino, N.J. Hannan  
New human models of preeclampsia offering physiologically relevant assays for the development of therapeutics to ameliorate vascular dysfunction that occurs in preeclampsia *abs# 555*

**Sahar Masoumeh Ghorbanpour** (*School of life science , University of Technology Sydney, Sydeny, NSW, Australia*)  
C. Richards  
Establishing of a novel placental-on-a-chip model *abs# 556*

**Ella S Green** (*Robinson Research Institute, University of Adelaide, Adelaide, SA, Australia*)  
D.J. Sharkey, L.M. Moldenhauer, S.A. Robertson  
Luteal phase progesterone signalling impacts timing of parturition in mice via a CD4<sup>+</sup> T cell dependent mechanism *abs# 557*

**Tanja Jankovic-Karasoulos** (*Flinders University, Bedford Park, ACT, Australia*)  
S. Leemaqz, A.L. Arthurs, M.D. Smith, G. Dekker, C.T. Roberts  
Gestational diabetes mellitus: more than just maternal obesity *abs# 558*

**Alyssa J Lochrin** (*University of Newcastle, Newcastle, NSW, Australia*)  
S.J. Delforce, E.R. Lumbers, K.G. Pringle  
Primary human trophoblast expression of the renin-angiotensin system is sensitive to hyperglycaemia *abs# 559*

**Evangeline A Lovell** (*Obstetrics and Gynecology, Robinson Research Institute and Adelaide Medical School, University of Adelaide, Adelaide, South Australia, Australia*)  
S.L. Hosking, H.M. Groome, G.K. McConell, L.M. Moldenhauer, K.L. Gatford, S.A. Robertson, A.S. Care  
Reduced uterine natural killer cell abundance and impaired spiral artery remodeling in mice performing intensive exercise before and during pregnancy *abs# 560*

**Padma Murthi** (*Maternal Fetal Medicine, Pregnancy Research Centre, Royal Women's Hospital, Parkville, Victoria, Australia*)  
A. Chakraborty, I. Alfian, G. Sgroi, S. Saini, B. Kalionis, C. Samuel, E. Dimitriadis, N. Alfaidy, S. Ricardo, S. Brennecke  
Temporal expression of inflammasomes is increased in human placentae affected by fetal growth restriction (FGR), and in three inflammation-induced models of FGR: a murine model *in vivo*; human placental organoids and cultured BeWo cells *in vitro*. *abs# 561*



**Tharangani R.W Perera** (Priority Research Centre for Reproductive Science, School of Environmental and Life Sciences, College of Engineering, Science, and Environment, University of Newcastle, Callaghan, New South Wales, Australia)  
B. Nixon, Z. Gibb, A.R. Sheridan, J. Clulow, D.A. Skerrett-Byrne, A. Swegen

Comparison of the proteomic composition of pregnant and non-pregnant mare plasma: identification of early pregnancy biomarkers *abs# 562*

**Sigrid Petautsching** (Hudson Institute for Medical Research, Clayton, VIC, Australia)

R. Oberin, T. Tsai, E. Jarred, H. Bildscoe, Z. Qu, D. Adelson, S. Pederson, P. Western

Polycomb-dependent epigenetic programming in the oocyte impacts placentation and pregnancy in the next generation *abs# 563*

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

M.J. Young, D.S. Mcleod, M.C. d'Emden

Nicotine exposure reduces uptake of transthyretin-thyroxine by placental trophoblasts *abs# 565*

**Jessica P Rickard** (Faculty of Science, School of Life and Environmental Sciences, University of Sydney, Sydney, NSW, Australia)

E.A. Spanner, E. Hall, M. Humphries, H. Wilson, S.P. de Graaf

A preliminary investigation into factors influencing the success of ovine artificial insemination *abs# 566*

**Nadia Saadat** (Pediatrics, University of Michigan, Ann Arbor, MI, United States)

M. Puttabyatappa, V.R. Elangovan, J. Dou, K.M. Bakulski, V. Padmanabhan

Prenatal BPA programming of muscle transcriptome in female sheep *abs# 567*

**Yao Wang** (RMIT University, Bundoora, VIC, Australia)

Y. Li, G. Nie

HtrA4 is expressed only in the placenta of primates and plays an essential role in trophoblast invasion *abs# 568*

**Georgia P Wong** (Obstetrics and Gynaecology, Mercy Hospital for Women, University of Melbourne, Heidelberg, Victoria, Australia)

N.J. Hannan, S. Tong, D.G. Simmons, P. Cannon, M. Kandel, J. Masci, T. Nguyen, T.J. Kaitu'u-Lino

Leucine-rich repeat-containing G protein-coupled receptor 5 (Lgr5) and its ligands are reduced in preeclamptic placentas. *abs# 569*

**Caitlin S Wyrwoll** (The University of Western Australia, Nedlands, WA, Australia)

M. Papini, E. Chivers, A. Larcombe

Long-term exposure of mice to 890 ppm atmospheric CO<sub>2</sub> increases birth weight, modifies growth trajectories, and alters behaviour in young adulthood *abs# 570*

## Receptors/Signal transduction e-Posters

**Rheannon Blücher** (Department of Molecular and Translational Science, Monash University, Clayton, Victoria 3168, Australia)

R. Lim, E. Jarred, M. Blewitt, M. Ritchie, P. Western

MEK1/2 regulates male germline development independent of FGF signalling *abs# 571*

**Fiona KM Cheung** (School of Biomedical Sciences, Faculty of Medicine, The University of Queensland, St Lucia, QLD, Australia)

C. Spiller, J. Bowles

BMP signalling facilitates meiotic progression in mouse fetal germ cells, *in vivo abs# 572*

**Irene E Sucquart** (Fertility and Research Centre, School of Women's and Children's Health, University of New South Wales, Sydney, NSW, Australia)

C. Coyle, V. Rodriguez Paris, D.P. Begg, R.B. Gilchrist, R.E. Campbell, K.A. Walters

Androgen receptor signaling in GABA neurons is not necessary for the development of PCOS traits in a peripubertal PCOS mouse model *abs# 573*

## Spermatogenesis/Sperm function e-Posters

**Nathan D Burke** (*The Priority Research Centre for Reproductive Biology, The University of Newcastle, Callaghan, New South Wales 2308, Australia*)

*D.A. Skerrett-Byrne, S.D. Roman, J.E. Schjenken, J.L. Walters, R.J. Aitken, B. Nixon, E.G. Bromfield*

A proteomic approach to investigating oxidative stress in human spermatozoa – lipid aldehyde induced protein modifications and therapeutic potential *abs# 574*

**Raveena Gajanayaka** (*The University of Western Australia, Perth, WA, Australia*)

*K. Pool, D. Alkashyabi, S. Maloney, P. Mark, D. Blache*

Vitamin E partially rescues reproductive function in male *Drosophila melanogaster* exposed to heat *abs# 575*

**Teruhito Ishihara** (*School of BioSciences, The University of Melbourne, Melbourne, VIC, Australia*)

*O.W. Griffith, S. Suzuki, M.B. Renfree*

Can paternal H3K4me3 transmission in sperm affect imprinting status of paternally-expressed genes after fertilisation? *abs# 576*

**Taylor C Kent** (*Murdoch University, Perth, WESTERN AUSTRALIA, Australia*)

*K.R. Pool, A. Jack, G. Rossi, G.L. Maker, A.L. Barnes*

Biochemical changes in ram spermatozoa after in vitro exposure to common herbal supplements *abs# 577*

**Denis Korneev** (*Monash University, Monash University (Clayton), VICTORIA, Australia*)

*D.J. Merriner, A. de Marco, M.K. O'Bryan*

New insights into sperm ultrastructure through enhanced scanning electron microscopy *abs# 578*

**Nicole McPherson** (*Freemasons Center for Male Health and Wellbeing, Adelaide, SA, Australia*)

*H. Shehadeh, T. Fullston*

Pseudogene RNA content of sperm, could they be playing a role in paternal transmission of obesity? *abs# 579*

**Ashlee J Medica** (*School of Environmental and Life Sciences, Callaghan, NSW, Australia*)

*Z. Gibb, a.R. Sheridan, N. Harrison, R.J. Aitken*

Causative mechanisms and functional correlates of MTT reduction in stallion sperm. *abs# 580*

**Diana Micati** (*Anatomy and Developmental Biology, Monash University, Clayton, VIC, Australia*)

*S. Archer, G. Hime, K. Loveland, H. Abud*

SNAI2 is required for germ cell differentiation during early postnatal testis development *abs# 581*

**Benedict Nathaniel** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia*)

*P. Whiley, Y. Miyamoto, K. Loveland*

Importins: Diverse roles in male fertility explored using new and old tools *abs# 582*

**Cottrell T Tamessar** (*Priority Research Centre for Reproductive Science and School of Environmental and Life Sciences, The University of Newcastle, Newcastle, NSW, Australia*)

*N.A. Trigg, A.L. Anderson, E.G. Bromfield, B. Nixon, J.E. Schjenken*

Assessment of the functional consequences of seminal fluid extracellular vesicle interactions with human spermatozoa *abs# 583*

**Penny A F Whiley** (*Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, Vic, Australia*)

*M.M. Luu, R.M. Hobbs, K.L. Loveland*

Activin A modulates the pace of germ cell development at the onset of spermatogenesis *abs# 584*

**Dagmar Wilhelm** (*University of Melbourne, Melbourne*)

*R. Umargamwala, A.D. Bird, P. Bernard, M. La, S. Bagheri-Fam, A.J. Pask, R. Hobbs*

The role of ATP6AP2 in male fertility *abs# 585*

## Uterus/Placenta/Implantation e-Posters

**Hanna H Allerkamp** (Auckland Bioengineering Institute, University of Auckland, Auckland, New Zealand)

A.R. Clark, J.L. James

Pregnancy specific paracrine factors alter the flow-mediated response of uterine radial arteries *abs# 587*

**Natasha de Alwis** (Mercy Perinatal, Mercy Hospital for Women, Melbourne, Victoria, Australia)

S. Beard, N.K. Binder, N. Pritchard, T.J. Kaitu'u-Lino, S.P. Walker, O. Stock, K.M. Groom, S. Petersen, A. Henry, J.M. Said, S. Seeho, S.C. Kane, S. Tong, N.J. Hannan

Expression of transcription factor NR4A2 is not altered in placentas from cases of growth restriction or preeclampsia, but is reduced in hypoxic cytotrophoblast *abs# 588*

**Yang Dong** (Shenzhen Key Laboratory of Fertility Regulation, Department of Obstetrics and Gynecology, The University of Hong Kong-Shenzhen Hospital, Shenzhen)

C. Lee, C. Lee, P. Chiu

The regulatory role of human endometrial organoid secretome on trophoblast migration and invasion *abs# 589*

**Johanna K Farley** (Hudson Institute of Medical Research, Melbourne)

J. Piskopos, C.E. Gargett, S. Gurung, T. Tapmeier

Small extracellular vesicles as biomarkers of endometriosis *abs# 591*

**Tina Gorsek Sparovec** (Medical University of Graz, Graz, AUSTRIA, Austria)

U. Markert, P. Reif, W. Schoell, C. Gargett, Z. Mihalic, J. Kargl, D. Gold

The fate of SUSD2+ endometrial mesenchymal stem cells during decidualization *abs# 592*

**Kathryn H Gurner** (School of Biosciences, University of Melbourne, Parkville, VIC, Australia)

J. Evans, J. Hutchison, A.J. Harvey, D.K. Gardner

A high lactate low pH microenvironment created by the blastocyst promotes endometrial receptivity and implantation. *abs# 593*

**Shanti Gurung** (Centre for Reproductive Health/Hudson Institute of Medical Research/Monash University, Clayton, VIC, Australia)

D. Greening, A. Raj, Q. Poh, J. Evans, L. Salamonsen

Proteomes of endometrial stromal cell-derived small EVs indicate decidualisation potential *abs# 594*

**Sadaf Kalam** (Faculty of Health and Medicine, University of Sydney, Sydney, NSW, Australia)

S. Dowland, C. Murphy, L. Lindsay

Is exocytosis the key to detecting uterine receptivity: examination of extracellular vesicles, porosomes and SNARE proteins *abs# 595*

**Leqian Lin** (Shenzhen Key Laboratory of Fertility Regulation, Department of Obstetrics and Gynecology, The University of Hong Kong-Shenzhen Hospital, Shenzhen)

C. Lee, P. Chiu

The regulatory roles of human endometrial gland secretions at the fetal-maternal interface *abs# 596*

**Hanzhang Ruan** (Department of Obstetrics and Gynaecology, University of Hong Kong, Hong Kong SAR, People's Republic of China)

S. Fong, K. Lee, A. Chen, K. Lee, W. Yeung, E. Ng, Y. Lee

Attachment-requisite E-cadherin expressed on apical surface of endometrial epithelial cells is regulated by p120-catenin *abs# 597*

**Lachlan Schofield** (Hunter Medical Research Institute (HMRI), Newcastle, NSW, Australia)

R. Kahl, J.H. Martin, S.K. Morosin, S.J. Delforce, E.R. Lumbers, K.G. Pringle

The role of prorenin and the (pro)renin receptor in successful placentation *abs# 598*

**Manizha Shekibi** (School of Health and Biomedical Sciences, RMIT University, Bundoora, VIC, Australia)  
S. Heng, Y. Wang, Y. Li, G. Nie  
Regulation of human endometrial receptivity by microRNAs for embryo implantation *abs# 599*

**Cherry Sun** (The University of Auckland, Auckland, AUCKLAND, New Zealand)  
K.M. Groom, C. Oyston, L.W. Chamley, J.L. James  
Culture and differentiation of term side-population trophoblasts *abs# 600*

**Stephanie J Waugh** (Priority Research Centre for Reproductive Science, School of Environmental and Life Sciences, The University of Newcastle, Callaghan, NSW, Australia)  
Z. Gibb, J. Schjenken, J. Breen, R.J. Aitken, A. Swegen  
The first transcriptomic profile of equine endometrial glands provides a novel insight into endometrial gene expression *abs# 601*

**Wentong Xu** (The Ritchie Centre and Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VICTORIA, Australia)  
C.E. Gargett, C.E. Filby  
Characterizing endometrial stem/progenitor cells in menstrual fluid in women with and without endometriosis *abs# 602*

## Other e-Posters

**Pevindu Abeysinghe** (Centre for Children's Health Research, School of Biomedical Sciences, Faculty of Health, The Queensland University of Technology, Brisbane, Queensland, 4029, Australia.)  
N. Turner, H. Peiris, K. Vaswani, N. Cameron, N. McGhee, M.D. Mitchell, J. Logan  
An exploratory study for using extracellular vesicle miRNA as a biomarker of fertility status *abs# 603*

**Mohammad MB Bahrami** (Engineering, Science and Environment, University of Newcastle, Callaghan, NSW, Australia)  
E.E. Klein, P.P. Cottee, R.R. Aitken, Z.Z. Gibb  
Amino acid supplementation affects fertilisation of bovine oocytes *in vitro* *abs# 604*

**Kerry V Fanson** (La Trobe University, Rosanna, VIC, Australia)  
Cyclic changes in cortisol across the estrous cycle in parous and nulliparous Asian elephants *abs# 605*

**Caitlin E Filby** (The Ritchie Centre and Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VICTORIA, Australia)  
K.A. Wyatt, K. Tyson, C.E. Gargett  
Novel endometrial epithelial organoids for modelling gynaecological disease *abs# 606*

**Therese Freire** (School of Medical Sciences, Faculty of Medicine and Health, The University of Sydney, Sydney, NSW, Australia)  
X. Clark, A.J. Crean, D. Raubenheimer, S.J. Simpson, S.M. Solon-Biet  
You are what your mother eats: maternal macronutrient intake and the effects on offspring metabolism *abs# 607*

**Madeleine LM Hardy** (The university of Sydney, Sydney, NSW, Australia)  
M.B. Morris, M.L. Day  
Small-molecule factors improve development of mouse preimplantation embryos by protecting them against oxidative stress *abs# 608*

**Ngoc Le Tran** (School of Health and Biomedical Sciences, RMIT University, Melbourne, VIC, Australia)  
Y. Wang, M. Bilandzic, A. Stephens, G. Nie  
Expression of podocalyxin in high grade serous carcinoma and its potential role in facilitating spheroid formation *abs# 609*

**Sophie G Lucic Fisher** (Charles Perkins Centre, School of Life and Environmental Sciences, University of Sydney, Sydney, NSW, Australia)  
A. Brandon, S. Solon-Biet, K. Bell-Anderson  
A maternal high-sugar diet promotes body adiposity in offspring *abs# 610*

**Albaraa Mojadadi** (*Molecular Biomedicine , School of Medical Sciences, Charles Perkins Centre, The University of Sydney, Sydney, NSW, Australia*)

A. Au, P. Witting, G. Ahmad

Role for Selenium in homeostasis and reproduction *abs# 611*

**Kelsey R Pool** (*University of Western Australia, Crawley, WA, Australia*)

R. Gajanayakage, C. Connolly, S. Maloney, D. Blache

Oestrogenic metabolite equol reduces reproductive capacity in *drosophila melanogaster* over two generations *abs# 612*

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## ANZBMS E-POSTER LISTING

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### Plenary e-Posters

**Charles Inderjeeth** (*North Metropolitan Health and University of Western Australia, Nedlands, WA, Australia*)

W. Harrod

Systematic Review: Morbidity and all-cause mortality of current osteoporosis treatments. *abs# 35*

**Shejil Kumar** (*Endocrinology Department, St George Public Hospital, SYDNEY, New South Wales, Australia*)

T. Diamond, C. Bryant, R. Quinn, F. Bonar, P.A. Baldock, M.M. McDonald

Accelerated diffuse osteosclerosis, high bone mass phenotype and hungry bone syndrome in a man with adenocarcinoma of unknown primary *abs# 36*

**Friederike Thomasius** (*Frankfurter Hormon und Osteoporosezentrum, , Frankfurt, Germany*)

S. Palacios, A. Alam, M. Boolell, R.L. Duckham, F. Vekeman, G. Gauthier

Comparison of Fracture Rates and Economic Outcomes Between Women with Osteoporosis Receiving Risedronate Enteric-Coated and Alendronate *abs# 37*

**Lana J Williams** (*Deakin University, Geelong, VIC, Australia*)

A.L. Stuart, J.A. Pasco, J.M. Hodge, R. Samarasinghe, V. Chandrasekaran, I. Zulman, M. Berk

Lithium use and bone mineral density *abs# 38*

**Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)

B. Johnson, M. McClung, S. Silverman, S.R. Gandra, J. Timoshanko , B. Stollenwerk

Estimating relative fracture reduction of romosozumab versus teriparatide for postmenopausal osteoporosis using bone mineral density outcomes *abs# 39*

**Yaser Peymanfar** (*UniSA: Clinical and Health Sciences, University of South Australia , Adelaide , SA, Australia )*

Y. Su, C. Xian

Targeting Notch2 signalling to overcome methotrexate chemotherapy-induced bone and bone vasculature damage in rats *abs# 41*

**Natalie C Butterfield** (*Imperial College, London, United Kingdom*)

J.J. Miskiewicz, D. Komla-Ebri, S. Guilefoyle, M. Dack, A. Lawton, R. Lindsay, A. Adoum, D. Bassett, G.R. Williams, K. Ikegami, T. Yoshimura

Regulation of medullary bone in Japanese quail requires photoperiod-induced central actions of thyroid hormone. *abs# 42*

**Esther Camp** (*School of Biomedicine, University of Adelaide, Adelaide, South Australia, Australia*)

P.J. Anderson, S. Gronthos

Drug targeting of Tyrosine kinase receptor c-ros-oncogene 1 (C-ROS-1) to treat pre-fusion of coronal sutures in a pre-clinical model of craniosynostosis *abs# 43*

**Mriga Dutt** (*Department of Anatomy and Physiology, Faculty of Medicine, School of Biomedical Sciences, University of Melbourne, Parkville, VIC, Australia*)

R. Blazev, L. Liao, A. Chan, N.K. Wee, J. Molendijk, V.R. Haynes, Y. Ng, V.U. Sokolov, K.A. Smith, G.T. Dodd, G.G. Lynch, N.A. Sims, B.L. Parker

Integrating phosphoproteomics and functional genomics to identify novel insulin signalling regulators in bone *abs# 44*

**Natalie KY Wee** (*Bone Cell Biology and Disease, St Vincent's Institute of Medical Research, Fitzroy, Victoria, Australia*)

T.F. Lima, N.E. McGregor, E.C. Walker, N.A. Sims

Deletion of leptin receptor further delays cortical bone consolidation in female mice with activated STAT3 signalling *abs# 45*

**Kylie A Alexander** (*Mater Research, The University of Queensland, Brisbane, QUEENSLAND, Australia*)

H. Tseng, I. Kulina, W. Fleming, C. Vaquette, F. Genet, M. Ruitenber, J. Levesque

Lymphocytes are not required for the development of neurogenic heterotopic ossification after spinal cord injury *abs# 46*

## **Christopher and Margie Nordin Young Investigator Award e-Posters**

**Nithin Kolanu** (*Garvan Institute of Medical Research, Sydney, NSW*)

D. Bliuc, A. Sheu, R.D. Blank, J.D. Adachi, C. Berger, D. Goltzman, D.A. Hanley, R.G. Josse, S.M. Kaiser, C.S. Kovacs, J.C. Prior, T. Tran, J.R. Center

Type 2 diabetes, fracture risk and mortality in two longitudinal population-based studies: Dubbo Osteoporosis Epidemiology Study (DOES) and the Canadian Multicentre osteoporosis study (CaMos) *abs# 143*

**Tian Nie** (*Department of Medicine, Austin Health, University of Melbourne, Melbourne, Vic, Australia*)

V. Venkatesh, S. Golub, J.D. Zajac, M. Grossmann, R.A. Davey

Estradiol preserves endocortical and trabecular bone in an adolescent male-to-female mouse model of gender affirming hormone therapy. *abs# 144*

**Ahmed Al Saedi** (*Department of Medicine – Western Health, The University of Melbourne, St Albans, VIC, Australia*)

A. Hayes, R. Kremer, G.G. Duque

Elucidating the genetic effect of vitamin D on mesenchymal stem cells differentiation and function in vitro *abs# 145*

**Ali Ghasem-Zadeh** (*Endocrinology and Medicine, Austin Health, the University of Melbourne, Heidelberg, VIC, Australia*)

M. Bui, E. Seeman, S. Boyd, S. Iuliano, R. Jaipurwala, P. Mount, N. Toussaint, C. Chiang

Bone Microarchitecture and Estimated Failure Load are Deteriorated Whether Patients with Chronic Kidney Disease have Normal Bone Mineral Density, Osteopenia or Osteoporosis *abs# 146*

**Cassandra Smith** (*Institute for Health and Sport (iHeS), Victoria University, Melbourne, VIC, Australia*)

J.R. Lewis, M. Sim, W. Lim, E. Lim, L. Blekkenhorst, T.C. Brennan-Speranza, L. Adams, E. Byrnes, G. Duque, I. Levinger, R. Prince

Osteocalcin, Muscle Function and 15-year Falls-related Hospitalizations in Older Women: The Perth Longitudinal Study of Ageing Women *abs# 147*

**Kara B Anderson** (*Deakin University, Geelong, VIC, Australia*)

K.L. Holloway-Kew, A.G. Betson, J. Gaston, M.A. Kotowicz, W. Liao, M. Henneberg, J.A. Pasco

Fracture risk and use of angiotensin-converting enzyme inhibitors or angiotensin II receptor blockers *abs# 148*

**Amy B P Ribet** (*School of Biomedical Science, UWA, CRAWLEY, WA, Australia*)

B. Mullin, J. Tan, D. Yagoub, L. Abudulai, P. Ng, N.J. Pavlos

Proteomics of secretory lysosomes unmasks new regulators of osteoclast function and skeletal bone mass *abs# 149*

**Ye Cao** (*Molecular Medicine and Pathology, University of Auckland, Auckland*)

S.M. Bolam, A.E. Brooks, B.G. Matthews

Characterising human skeletal stem cell populations in different skeletal compartments *abs# 150*

## Basic Science e-Posters

**Babatunde A Ayodele** (*University of Melbourne, Parkville, VIC, Australia*)

*E.J. Mackie, C.N. Pagel, F. Armour, N. Courtman, P. Zahra, C.R. Whitton, P.L. Hitchens*

The Effect of Long Distance Air Transport On Bone Markers In Thoroughbred Racehorses *abs# 700*

**Samuel Bennett** (*The University of Western Australia, Perth, WA, Australia*)

*J. Yuan, J. Kenny, J. Tickner, E. Guo, G. Morahan, C. Ng, J. Xu*

Gene mining for novel molecular determinants of dental and skeletal homeostasis and disease in the Collaborative Cross *abs# 701*

**Martha Blank** (*Bone Cell Biology and Disease Unit, St. Vincent's Institute of Medical Research, Melbourne, Victoria, Australia*)

*N.E. McGregor, L. Rowley, L.H. Kung, B. Crimeen-Irwin, E.C. Walker, I.J. Poulton, S.R. Lamande, N.A. Sims, J.F. Bateman*

Carbamazepine does not rescue the osteogenesis imperfecta bone phenotype in *Col1a2<sup>+/G610C</sup>* mice but increases fragility in healthy bones *abs# 702*

**Shoni Bruell** (*Department of Nephrology, Royal Melbourne Hospital, Parkville, Vic, Australia*)

*E.R. Smith, T.D. Hewitson, A.S. Talbot, K.M. Nicholls, I. Ruderman*

Higher levels of calciprotein particles are associated with reduced bone mineral density in patients with Fabry disease *abs# 703*

**Emma J Buckels** (*Department of Molecular Medicine and Pathology, The University of Auckland, Auckland, New Zealand*)

*M. Watson, H. Hsu, C.M. Buchanan, K.L. Lee, B.G. Matthews*

Preptin deficiency has sexually dimorphic effects on trabecular bone volume in mice with advancing age *abs# 704*

**Dawn E Coates** (*University of Otago, Dunedin, OTAGO, New Zealand*)

*W.J. Duncan, D. Abdelmoneim, R.A. Easingwood, A. Jude, G.C. Porter*

Silver nanoparticles as an antimicrobial and their effects on osteogenic cells and bone regeneration *abs# 705*

**Aiken Dao** (*Orthopaedic Research & Biotechnology Unit, The Children's Hospital at Westmead, Sydney, NSW, Australia*)

*A. O'Donohue, J. Bobyn, T. Tran, E. Vasiljevski, D.G. Little, A. Schindeler*

The Needle Insertion Surgical Model with *Staphylococcus aureus* Biofilm and Orthopedic Implant for Preclinical Drug Trials *abs# 706*

**Pholpat Durongbhan** (*Department of Biomedical Engineering, The University of Melbourne, Melbourne, Victoria, Australia*)

*M.O. Silva, J.E. Schadow, K.S. Stok*

Time-lapse quantitative characterisation of whole-joint morphometric changes in a collagenase-induced osteoarthritis mouse model *abs# 707*

**Xiwei Fan** (*Queensland University of Technology, Kelvin Grove, QLD, Australia*)

*X. Wu, R. Webb, R. Crawford, M. Zheng, Y. Xiao, I. Prasadam*

Morpho-molecular and biochemical assessment indicates loss of calcified cartilage integrity in osteoarthritic joints *abs# 708*

**Ensieh HajiMotallebi** (*The university of Adelaide, Adelaide, SA, Australia*)

*D. Cakouros, S. Gronthos*

Identification of epigenetic factors deregulated in skeletal stem cells during high fat/glucose mediated inhibition of bone formation. *abs# 709*

**Yea Rin Olivia Lee** (*Clinical and Health Sciences, Health and Biomedical Innovation, University of South Australia, Adelaide, South Australia, Australia*)

*M. Briggs, J. Kuliwaba, P. Hoffmann, D. Muratovic, P. Anderson*

Mass spectrometry tissue imaging identifies complex/hybrid-type N-glycans as putative novel cartilage degradation markers for human knee osteoarthritis *abs# 710*

**Han Liu** (*Department of Biomedical Engineering, The University of Melbourne, Parkville, Australia*)

*J.E. Schadow, P. Durongbhan, M.O. Silva, K.S. Stok*

Three-dimensional quantitative morphometric analysis (QMA) for longitudinally tracking tibiofemoral microstructure in a preclinical mouse model *abs# 711*

**Rebecca S Mason** (*University of Sydney, Sydney, NSW, Australia*)

*M.S. Rybchyn, D.R. Fraser*

The role of skeletal muscle in maintaining vitamin D status *abs# 712*

**Risako Mori** (*Ritsumeikan University, Nojihigashi, Kusatsu, SHIGA, Japan*)

*H. Yamanaka, R. Masuyama*

The role of vitamin D in the maintenance of locomotor function *abs# 713*

**Alexandra K O'Donohue** (*Bioengineering & Molecular Medicine Laboratory, The Children's Hospital at Westmead and the Westmead Institute for Medical Research, Sydney, NSW, Australia*)

*Y. Xiao, L. Lee, T. Schofield, T.L. Cheng, P. Baldock, C. Munns, A. Schindeler*

Generating a post-natal knockout of sclerostin using adeno-associated viruses *abs# 714*

**Olga Panagiotopoulou** (*Department of Anatomy and Developmental Biology, Monash University, Clayton, Victoria, Australia*)

*H. Mehari Abraha, P. Haravu, . Shang, J. Iriarte Diaz, R.R. Reid, C.F. Ross*

BIOMECHANICAL DETERMINANTS OF JAW FRACTURE AND REPAIR *abs# 715*

**Selwin Samuel** (*Mater Research Institute - UQ, Woolloongabba, Brisbane, QLD, Australia*)

*H. Tseng, M. Salga, W. Fleming, K. Alexander, J. Levesque*

Pathogen Associated Molecular Patterns Affect Neurogenic Heterotopic Ossification Via Skeletal Muscle Cells *abs# 716*

**Jemima E. Schadow** (*Department of Biomedical Engineering, The University of Melbourne, Parkville, Australia*)

*M.O. Silva, P. Durongbhan, K.S. Stok*

Micro-computed tomography reveals early bone structural changes in osteoarthritis progression in a collagenase-induced mouse model *abs# 717*

**Nicholas Smith** (*Precision Medicine Theme, South Australian Health and Medical Research Institute, Adelaide, South Australia, Australia*)

*S. Gronthos, D. Cakouros*

Deregulation of DNA hydroxymethylases Tet1 and Tet2 compromises skeletal integrity during ageing and osteoporosis *abs# 718*

**Tomoka Takao** (*Department of Regenerative Science, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan*)

*M. Nakamura, D. Yamada, T. Takarada*

Heterogeneity and its hierarchy of Prrx1-positive cells during limb development *abs# 719*

**Tomoyuki Tanaka** (*Tokyo Medical and Dental University, Bunkyo-Ku, TOKYO, Japan*)

*H. Inose, A. Okawa*

Foxf2 represses bone formation via canonical Wnt signaling *abs# 720*

**Aisha Tarar** (*Faculty of Veterinary and Agricultural Sciences, The University of Melbourne, Melbourne, Victoria, Australia*)

*R. Sanaei, A.P. Woodward, K. DiGiacomo, B.J. Leury, E.J. Mackie, C.N. Pagel*

Investigating bone health in high-yielding dairy cattle using biochemical markers of bone turnover, micro-CT and dynamic histomorphometry *abs# 721*

**Laura Trainor** (*Precision Medicine Theme, South Australian Health and Medical Research Institute, Adelaide, South Australia, Australia*)

*M.D. Cantley, K. Vandyke, A.C. Zannettino*

Unravelling osteoblast differentiation and function in myeloma: differences between lytic and non-lytic disease *abs# 722*



**Zheng WANG** (*RIKEN, Minato-ku, TOKYO, Japan*)

*H. Imai, S. Ikegawa*

Identification of a Ferroptosis-Related Skeletal Dysplasia Spectrum and Its Potential Treatment *abs# 723*

**Yali Zhang** (*Clinical and Health Sciences, University of South Australia, Adelaide, SA, Australia*)

*C. Xian, Y. Su*

Potential regulatory roles of miRNA(s) in the bone loss and bone marrow adiposity following methotrexate chemotherapy in rats *abs# 724*

## Clinical e-Posters

**Ahmed Al Saedi** (*Department of Medicine – Western Health, The University of Melbourne, St Albans, VIC, Australia*)

*S. Vogrin, G. Guillemin, G.G. Duque*

Association Between Tryptophan Metabolites, Physical Performance and Frailty in Older Persons *abs# 726*

**Behnaz Azimi Manavi** (*School of Medicine, Deakin University, Geelong, VIC, Australia*)

*A.L. Stuart, J.A. Pasco, J.M. Hodge, R. Samarasinghe, L.J. Williams*

Antipsychotic use and bone quality *abs# 727*

**Matthew Balcerek** (*Department of Endocrinology and Diabetes, Royal Brisbane and Women's Hospital, Herston, QLD, 4029*)

*A. Fernandes, D. Jensen, C. Munns, S. Lazarus, E. Duncan*

Precision medicine in the bone clinic – its time is now. *abs# 728*

**Robert Blank** (*School of Medicine, University of Notre Dame, Sydney, NSW, Australia*)

*P.J. Mitchell, H. Seymour, E. Ahern, M. Costa, J. Magaziner, J. Lee, D. Chang, J. Close*

Asia Pacific Fragility Fracture Alliance – Fragility Fracture Network Hip Fracture Registry Toolbox: A Resource to Support Registry Implementation *abs# 729*

**Robert D Blank** (*Evidencia Medical Communications, Sydney, NSW, Australia*)

*Y. Choi, K. Bruce, D. Chan, J. Close, M. Kheradi, J. Lee, L. Mercado-Asis, P.J. Mitchell*

Asia Pacific Fragility Fracture Alliance Primary Care Toolkit: Empowering Fragility Fracture Education *abs# 730*

**Dana Bliuc** (*Osteoporosis and Bone Biology, Garvan Institute of Medical Research, Darlinghurst, NEW SOUTH WALES, Australia*)

*T. Tran, W. Chen, D. Alarkawi, R.D. Blank, K.E. Ensrud, F. Blyth, L. March, J.R. Center*

Multimorbidity increases risk of osteoporosis under-diagnosis and under-treatment in patients at high fracture risk: 45 and Up a prospective population based-study *abs# 731*

**Cherie Chiang** (*Department of Endocrinology, Austin Health, Heidelberg, VIC, Australia*)

*A. Lamanna, H. Abbouchie, N. Kutaiba*

Opportunistic Screening for osteoporosis using L1 vertebral density on abdominal CT in an Australian population *abs# 732*

**Cherie Chiang** (*Department of Diabetes and Endocrinology, Melbourne Health, University of Melbourne, Parkville, VIC, Australia*)

*R. Barmanray, T. Fazio, E.M. Reijnierse, A.B. Maier, I. Sim, P.R. Ebeling, C. Yates*

Automated best practice alerts improved treatment initiation post hip fracture *abs# 733*

**Arkadi Chines** (*Amgen Inc, Thousand Oaks, CA, USA*)

*D. Farlay, S. Rizzo, D. Demster, S. Huang, L. Chen, J.P. Brown, G. Boivin*

Bone matrix quality in transiliac biopsies from post-menopausal osteoporotic (PMOP) women treated with denosumab (DMab) for up to 10 years (FREEDOM and FREEDOM Extension Trials) *abs# 734*

**Lucy Collins** (*Department of Diabetes and Endocrinology, Royal Melbourne Hospital, Melbourne, Victoria, Australia*)

*R.D. Barmanray, C. Chiang, C. Yates, S. Furlanos*

Changing anti-resorptive prescription rates in the last five years *abs# 735*

**Jack Dalla Via** (*Institute for Nutrition Research, School of Medical and Health Sciences, Edith Cowan University, Perth, WA, Australia*)

*M. Sim, J.T. Schousboe, D.P. Kiel, K. Zhu, J.M. Hodgson, A.K. Gebre, R.M. Daly, R.L. Prince, J.R. Lewis*

Association of abdominal aortic calcification with peripheral quantitative computed tomography bone measures in older women: The Perth Longitudinal Study of Ageing Women *abs# 736*

**Elaine M Dennison** (*Victoria University of Wellington, Wellington, NEW ZEALAND, New Zealand*)

*F. Laskou, N. Fuggle, C. Cooper, N. Yoshimura, T. Iidaka, C. Horii, S. Tanaka*

Prevalence and Associates Of Age-Related Muscle Strength Decline In Community Dwelling Older Adults – Comparisons Of East And West *abs# 737*

**Jack Feehan** (*Department of Medicine - Western Health, The University of Melbourne, Melbourne, Victoria, Australia*)

*C. Smith, N. Tripodi, E. Degabrielle, A. Al Saedi, G. Duque, I. Levinger*

Higher levels of circulating osteoprogenitor cells are associated with higher bone mineral density and lean mass in older adults, and are a putative biomarker for osteoporosis: A cross-sectional study. *abs# 738*

**Alison Flehr** (*Bone Health and Fractures Research Program, Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, VIC, Australia*)

*M. Wheeler, A.J. King, A. Garnham, J. Hawley, F. Marques, C. Christophersen, L. Vandenput, M. Lorentzon*

OsteoPreP: The effect of probiotic supplementation on bone, muscle, and glucose metabolism in postmenopausal women – study design *abs# 739*

**Alison Flehr** (*Bone Health and Fractures Research Program, Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, VIC, Australia*)

*J. Källgård, J. Alvéén, K. Lagerstrand, E. Papalini, M. Wheeler, L. Vandenput, F. Kahl, K.F. Axelsson, D. Sundh, R. Shirish Mysore, M. Lorentzon*

Development of a novel method to measure bone marrow fat fraction in older women using high-resolution peripheral quantitative computed tomography *abs# 740*

**Anoohya Gandham** (*Monash University, Clayton, VICTORIA, Australia*)

*D. Scott, M. Bonham, B. Kulkarni, S. Kinra, P. Ebeling*

Sex differences between bone health, and obesity, sarcopenia, and sarcopenic obesity in Indian older adults. *abs# 741*

**Abadi Kahu Gebre** (*Institute for Nutrition Research, School of Medical and Health Sciences, Edith Cowan University, Joondalup, Western Australia, Australia*)

*M. Sim, J. Dalla Via, A. Rodríguez, J. Hodgson, C. Bondonno, R. Prince, J. Lewis*

Asymptomatic cerebrovascular disease, falls and fracture risk in older Australian women: The Perth Longitudinal Study of Ageing Women *abs# 742*

**Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)

*Y. Almog, A. Raj, A. Mishra, A. Moulaison, R. Powell, K. Weinberg, C. Hamilton, M. Oates, E. McCloskey, S.R. Cummings*

Crystal bone is a personalised short-term fracture risk prediction with natural language processing methods *abs# 743*

**Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)

*C.J. Blauer-Peterson, A. Yehoshua, M.H. Carlyle, V. Walker, S.R. Gandra*

Randomised study to evaluate a secondary prevention program for women with osteoporotic fractures *abs# 744*

**Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)

*S. Cummings, C. Libanati, C. Hamilton, Z. Yu, W. Yang, S. Ferrari, J. Jensen, P. Bernal, F. Bertoldo, E. Lespessailles, E. Hesse, F. Cosman*

Probability of achieving T-scores goals above -2.5 with alendronate (ALN) or romosozumab (ROMO) followed by alendronate or denosumab (DMAB) *abs# 745*

**Jeffrey Hassall** (*Amgen Australia, Sydney, NSW, Australia*)

*E. Schemitsch, J.D. Adachi, J.P. Brown, J. Tarride, N. Burke, T. Oliveira, L. Slatkowska*

Hip fracture has a significant contribution to fragility fracture burden in Ontario Canada *abs# 746*

**Sarah M Hosking** (*IMPACT Institute, Deakin University, Geelong, Victoria, Australia*)  
P. Rafeld, M. Percival, G.B. Lee, L.J. Williams, J.A. Pasco, A.T. Page  
Diagnostic test accuracy of self-reported use of medicines for bone health *abs# 747*

**Natalie K Hyde** (*IMPACT, Deakin University, Geelong, Australia*)  
A. Karandaglidis, P. Rufus-Membere, M.A. Percival, J.A. Pasco  
The association between macrosomia and child bone density *abs# 748*

**Ageliki Karandaglidis** (*IMPACT (Institute for Mental and Physical Health and Clinical Translation), Deakin University, Geelong, VIC, Australia*)  
P. Rufus-Membere, K.L. Holloway-Kew, J.A. Pasco, N.K. Hyde  
Maternal dysglycaemia in pregnancy and offspring bone health *abs# 749*

**Craig F Munns** (*The Children's Hospital at Westmead, Westmead, NSW, Australia*)  
A. Morris, G. Eslick, A. Siafarikas, A. Biggin, M. Poon, J. Harrington, D. Jensen, M. Zacharin, C. Rodda, P. Simm  
X-linked Hypophosphataemic Rickets in Australian Children: Prevalence and Burden of Disease *abs# 750*

**Carrie-Anne Ng** (*Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Clayton, Victoria, Australia*)  
D. Scott, M. Sim, K. Zhu, A. Siafarikas, N. Hart, J. Tan, P. Chivers  
Osteogenic potential of physical activities and their associations with bone mass in young adults from the Raine Study *abs# 751*

**Carrie-Anne Ng** (*Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Clayton, Victoria, Australia*)  
A. Gandham, J. Mesinovic, P.R. Ebeling, D. Scott  
A systematic review and meta-analysis of the effects of impact exercise on bone microarchitecture across the lifespan *abs# 752*

**Elisabeth Ng & Shanal Kumar** (*Department of Endocrinology & Diabetes, Alfred Health, Melbourne, Australia*)  
L. Rosi, D. Bennett, L. Chiu, L. Fuller, G. Snell, D. Topliss, S. Sztal-Mazer, L. Bach, K. Hackman  
Audit of Osteoporosis Management and Fracture Rates in Adult Lung Transplant Recipients *abs# 753*

**Huy G Nguyen** (*School of Biomedical Engineering, The University of Technology Sydney, Sydney, NSW, Australia*)  
H.T. Nguyen, T.S. Tran, S.H. Ling, T.V. Nguyen  
Identification of asymptomatic vertebral fracture: A novel shape-based algorithm *abs# 754*

**Maxim Devine** (*Menzies Institute for medical research, University of Tasmania, Hobart, TAS, Australia*)  
C. Ma, J. Tian, G. Jones, F. Pan  
Pain phenotype and risk of incident fractures over 10.7 years *abs# 755*

**Julie A Pasco** (*Deakin University, Geelong, VICTORIA, Australia*)  
S.X. Sui, E.C. West, K.L. Holloway-Kew, K.B. Anderson, A.L. Stuart, B.E. Kavanagh, K.B. Corney, L.J. Williams  
Cognitive ability should be considered when assessing skeletal muscle strength and performance *abs# 756*

**Lisa Raven** (*Department of Endocrinology, St Vincent's Hospital, Darlinghurst, NSW, Australia*)  
D. Bliuc, T. Tran, J. Eisman, J. Center  
Fracture incidence post lung transplantation *abs# 757*

**Yoon Ji Jina Rhou** (*Diabetes and Endocrinology, Westmead Hospital, Sydney, NSW, Australia*)  
C. Wang, M. Nguyen, L. Lim, J. Holmes-Walker, C. Munns, C.M. Girgis  
Clinical and radiologic responses of central giant cell granuloma to denosumab: a 6-year observational cohort study *abs# 758*

**Alexander J Rodriguez** (*Bone and Muscle Research Group, Monash Medical Centre, Monash University, Melbourne, Victoria, Australia*)

A. Gebre, J. Lewis, K. Leow, P. Szulc, D. Scott, P.R. Ebeling, M. Sim, G. Wong, W.H. Lim, J.T. Schousboe, D.P. Kiel, R.L. Prince  
Abdominal aortic calcification, bone mineral density and fractures: a systematic review and meta-analysis of observational studies *abs# 759*

**Navira Samad** (*Department of Endocrinology, Monash Health, Melbourne, Victoria, Australia*)

H.H. Nguyen, H. Hashimura, J. Pasco, M. Kotowicz, B.J. Strauss, P.R. Ebeling, A. Vincent, F. Milat  
Lower trabecular bone score bone mineral density and lean mass observed in women with premature ovarian insufficiency is prevented by oestrogen replacement *abs# 760*

**David Scott** (*Deakin University, Burwood, VIC, Australia*)

Z. Yu, P. Jansons, N. Kiss, P.R. Ebeling, R.M. Daly  
Recruitment of participants and early adherence to a digital health intervention for middle-aged and older women with osteoporosis *abs# 761*

**Cassandra Smith** (*Institute for Health and Sport (iHeS), Victoria University, Melbourne, VIC, Australia*)

D. Hiam, A. Tacey, X. Lin, M.N. Woessner, N. Zarekookandeh, J.R. Lewis, M. Sim, M. Herrmann, G. Duque, I. Levinger  
The relationships between muscle mass and function with bone remodelling markers in older adults: effects of acute aerobic and resistance exercises *abs# 762*

**Cassandra Smith** (*Institute for Health and Sport (iHeS), Victoria University, Melbourne, VIC, Australia*)

A. Tacey, J. Mesinovic, D. Scott, X. Lin, T.C. Brennan-Speranza, J.R. Lewis, G. Duque, I. Levinger  
Effects of Acute Exercise on Bone Turnover Markers in Middle-Aged and Older Adults: a Systematic Review *abs# 763*

**Matthew Thackeray** (*Barwon Health, Geelong, Victoria, Australia*)

M.A. Kotowicz, J.A. Pasco, M. Mohebbi, N.R. Orford  
Changes in body composition in the year following critical illness *abs# 764*

**Mark K Tiong** (*Department of Nephrology, The Royal Melbourne Hospital, Parkville, VIC, Australia*)

M.M. Cai, N.D. Toussaint, S. Tan, E.R. Smith  
Effect of nutritional calcium and phosphate loading on calciprotein particles *abs# 765*

**Thach Tran** (*Garvan Institute of Medical Research, Darlinghurst, NSW, Australia*)

D. Bliuc, R. Blank, W. Chen, J. Eisman, K. Ensrud, L. Langsetmo, T. Nguyen, J. Center  
External validation of a risk assessment tool for predicting fragility fractures and mortality in the Osteoporotic Fractures in Men (MrOS) Study *abs# 766*

**Mawson Wang** (*Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

C. Zaccaria, C.M. Girgis, N.W. Cheung  
Osteoporosis in patients with intestinal failure at Westmead Hospital: a 20-year single-centre review *abs# 767*

**Michael Wheeler** (*Sahlgrenska Osteoporosis Centre, Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden*)

K.F. Axelsson, M.N. Woessner, H. Litsne, A. Flehr, A.J. King, L. Vandenput, M. Lorentzon  
Eating disorders are associated with increased risk of fall injury and hip fracture in Swedish women and men *abs# 768*

**Mary N Woessner** (*Institute for Health and Sport (IHES), Victoria University, Melbourne, VIC, Australia*)

D. Hiam, C. Smith, X. Lin, N. Zarekookandeh, A. Tacey, L. Parker, S. Landen, M. Jacques, J.R. Lewis, T. Brennan-Speranza, S. Voisin, G. Duque, N. Eynon, I. Levinger  
Osteoglycin across the adult lifespan *abs# 770*

**Sin Dee Yap** (*Department of Endocrinology, Eastern Health, Box Hill, Victoria, Australia*)

L. Ngo, C. Gilfillan  
Vertebral Fractures following Interruption of Denosumab Therapy *abs# 771*

**Ayse Zengin** (*Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Clayton, VIC, Australia*)

*P. Manoleehakul, C. Shore-Lorenti, M. Sim, L. Maple-Brown, J.R. Lewis, J. Ockwell, T. Walker, D. Scott, S.L. Brennan-Olsen, P.R. Ebeling*

Determining need for a co-designed educational program to increase musculoskeletal health awareness among Aboriginal and Torres Strait Islander adults: findings from focus groups *abs# 772*

**Ayse Zengin** (*Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Clayton, VIC, Australia*)

*K. Janssens, A. Mitchell, A. La Gerche, P.R. Ebeling*

Bone mineral density in retired elite rowers *abs# 773*

## Clinical Cases e-Posters

**Ingrid Bretherton** (*Endocrinology, Austin Hospital, Melbourne, VIC, Australia*)

*S.Y. Leemaqz, E. Seeman, X. Wang, A. Ghasem-Zadeh, T. McFarlane, C. Spanos, M. Grossmann, J.D. Zajac, A.S. Cheung*  
Bone Microarchitecture in Transgender Adults: a Cross Sectional Study *abs# 774*

**Aviva Frydman** (*Department of Endocrinology, Austin Health, Heidelberg, VIC, Australia*)

*N. Poci, P. Mount, C. Chiang*

To stop or not to stop: Denosumab in the octogenarian with renal impairment *abs# 775*

**Bella Halim** (*Endocrinology, Northern Health, Melbourne, VIC, Australia*)

*T. Vu, S. Varadarajan*

Burosumab in Adult X-Linked Hypophosphatemia *abs# 776*

**Mawson Wang** (*Department of Diabetes and Endocrinology, Westmead Hospital, Westmead, NSW, Australia*)

*D. Huynh, C.M. Girgis*

Atypical femur fracture in a case of a young female with short stature and very high bone density *abs# 777*

**Ali Islek** (*Pediatric Gastroenterology, Cukurova University School of Medicine, Adana, Turkey*)

*N. Kizilelma, H. Keskin, N. Ozturk*

Changes in bone turnover markers in adolescents with gastroesophageal reflux treated with lansoprazole *abs# 778*

**Hajime Kato** (*Division of Nephrology and Endocrinology, The University of Tokyo Hospital, 7-3-1, Hongo, Bunkyo-ku, Tokyo, Japan*)

*J. Ansh, N. Hidaka, M. Koga, D.T. Braddock, N. Ito*

Two cases with heterozygous *ENPP1* mutation presenting different skeletal manifestations *abs# 779*

**Anojian Koneshamoorthy** (*Western Health, Melbourne*)

*V. Grill, H. Nguyen, B. Krishnamurthy*

Concurrent atypical femoral fracture and primary hyperparathyroidism. A clinical conundrum *abs# 780*

**Josephine McCarthy** (*Endocrinology & Diabetes, Eastern Health, Box Hill, Victoria*)

*C. Gilfillan, P. Ebeling, F. Hannan, R. Thakker*

Association of hypoparathyroidism with congenital bone abnormalities *abs# 781*

**Yu-Fang Wu** (*Department of Endocrinology, Westmead Hospital, Sydney, NSW, Australia*)

*C. Girgis, C. Chi*

Novel use of Combination BRAF and MEK inhibitor therapy for the Treatment of Diffuse Skeletal Erdheim-Chester Disease *abs# 782*

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## AUTHOR LISTING

Abbouchie, H	732	Anderson, K.B	148,17,756	Bateman, J.F	702
Abdelmoneim, D	705	Anderson, P	710	Batty, L	258
Abe, M	54	Anderson, P.H	248	Bayman, S	407
Abell, A	127	Anderson, P.J	43	Beagley, K.W	48
Abeyasinghe, G	359	Anderson, R	506	Beard, S	114,555,588
Abeyasinghe, P	517,603	Andres, F	151	Beauchamp, A	19
Abrahamsen, B	222	Andrews, Z	74	Bechara, N	314
Abud, H	581	Andrews, Z.B	27	Beck, B.R	5
Abudulai, L	149	Anil, J	382	Becker, R	127
Adachi, J.D	143,746	Ansari, N	172	Begg, D.P	573
Adams, L	147	Ansh, J	779	Beilby, J	58
Adams, Z	101	Apter, D	321	Beilby, K	535
Adelson, D	131,15,536,563,65,66	Archer, S	581	Bell, K.M	213
Adhikari, D	129,130,71	Ariyawansa, C	381	Bell, K.M	32
Adoum, A	42	Arman, B	114	Bell, R.J	214,57
Aflatounian, A	92	Armani, A	176	Bell-Anderson, K	610
Ahern, E	729	Armour, F	700	Bennett, D	753
Ahmad, G	503,611	Arthurs, A.L	558	Bennett, S	701
Aitken, D	232	Ashkar, C	364	Benson, K	371
Aitken, R	260	Aston, K.I	200	Berger, C	143
Aitken, R.J	574,580,601	Attar, S	176	Berk, M	38
Aitken, R.J	156,203	Au, A	611	Bernal, P	745
Aitken, R.R	604	Axelsson, K.F	740,768	Bernard, D.J	84
Akison, L	233	Ayers, K	213,241,32	Bernard, P	538,585
Al Saedi, A	145,726,738	Ayodele, B.A	700	Berntstein, I.R	117,203,69
Al-Tilissi, A	167	Azimi Manavi, B	727	Bertoldo, F	745
AL-Zubaidi, U	129	Azumah, R	506	Bertoldo, M.J	545,92
Alajlouni, D	18	Bach, L	351,426,753	Betson, A.G	148
Alam, A	220,37	Bagheri-Fam, S	202,585	Bhushan, S	513
Alarkawi, D	731,79	Bahrami, M	156	Biazik, J	124
Aldhafer, Y	362	Bahrami, M.M	604	Biggin, A	750
Alesi, L	209,546	Bajaj, N	27	Bilandzic, M	609
Alesi, L.R	132	Baker, M	260,542	Bildscoe, H	15,563,65
Alexander, K	716	Baker, M.A	541	Bildsoe, H	131
Alexander, K.A	46	Bakhshalizadeh, S	213,32	Binder, N	114
Alexander, K.K	245	Bakos, H	502	Binder, N.K	555,588
Alexiadis, M	311	Bakulski, K.M	567	Bindra, J	315,365
Alexopoulos, S.J	92	Balcerek, M	313,360,728	Biniwale, S	513
Alfaidy, N	561	Balcerek, M.I	342	Bird, A	538
Alfian, I	561	Baldock, P	714,76	Bird, A.D	585
Alhuzaimi, D	88	Baldock, P.A	36,77	Bird, P	221
Alkashyabi, D	575	Banzet, S.S	245	Blache, D	575,612
Allan, C	210,377	Bappoo, N	102,552	Blackburn, M	390
Allebone, J	194	Barbour, A	411	Blank, M	14,702
Allerkamp, H.H	587	Barker, A	248	Blank, R	729,766
Almazic, J.G	64	Barker, D	248	Blank, R.D	143,18,730,731,79
Almeida, O.P	52	Barmanray, R	733	Blauer-Peterson, C.J	744
Almog, Y	743	Barmanray, R.D	372,735	Blazev, R	44
Almuwais, A	363	Barnes, A.L	577	Blekkenhorst, L	147
Alobaidi, B	258	Barnes, E	221	Blewitt, M	571
Alrt, W	95	Barrett, H	166	Bliuc, D	143,18,222,731,757,766,79
Altus, L	410	Bartho, L.A	553	Blücher, R	571
Alvén, J	740	Barton, S	62	Blumer, L	355
Amor, D	142	Bassett, D	42,76	Blyth, F	731,79
Anderson, A.L	117,203,583	Bate, K	427		

Bobyn, J	706	Burgess, J.R	53	Chan, A	173,34,44
Boehm, E	406	Burke, N	746	Chan, D	730
Boeing, S	541	Burke, N.D	574	Chan, H	507
Boivin, G	734	Burke, R	155	Chan, K.L	239,84
Bolam, S.M	150	Burnet, G	158,263	Chan, K	51
Bonar, F	36	Burns, H	301	Chan, M	324
Bondonno, C	742	Burrage, L	366,367	Chandrasekaran, V	38
Bonham, M	741	Burrell, L	253	Chandrashekar, P	166,310
Boolell, M	220,37	Burt, M	136	Chang, D	729
Borbolla Foster, A	374	Busse, B	174	Chapman, M	138
Borgstrom, F	19	Bustamante, S	124	Charitakis, N	241
Boss, A.L	152	Butler, L	356	Chauhan, K	317
Bottomley, A	105	Butterfield, N.C	42	Chavassieux, P	9
Bowles, J	158,263,531,572	Byrnes, E	147	Chee, N.Y	54
Boyce, R.W	9	Byth, K	223	Chee, N	368
Boyd, S	146	Caban, S.J	547	Cheers, S.R	258
Bracken, K	177	Cai, M.M	765	Chemtob, S	100
Braddock, D.T	779	Cai, X	539,546	Chen, A	136,597
Brandon, A	610	Cakouros, D	709,718	Chen, C	85
Breen, J	203,507,508,601	Cameron, N	517,603	Chen, G	56
Brennan-Olsen, S	19	Camp, E	43	Chen, J	196,318
Brennan-Olsen, S.L	772	Campbell, J	124	Chen, K	169
Brennan-Speranza, T	170,770	Campbell, L	215	Chen, L	734
Brennan-Speranza, T.C	147,763	Campbell, R.E	573,73	Chen, W	3,731,766,79
Brennecke, S	561	Campugan, C.C	500	Chen, X	63
Bretherton, I	774,87	Cannon, P	112,151,569	Cheng, T.L	714
Briffa, J.F	112	Cantley, M.D	722	Chensee, G	509
Briggs, M	710	Cao, R	370	Cheung, A	140,87
Bright, R	248	Cao, Y	150	Cheung, A.S	121,194,342,345,346,774
Bromfield, E.G	117,203,547,574,583	Care, A	123,185	Cheung, C	301
Brookes, D	212	Care, A.S	153,560	Cheung, F.K	572
Brooks, A.A	152	Carey, A.J	48	Cheung, N.W	767
Brooks, A.E	150	Carlino, M	191	Cheung, U	310
Brooks, E	424	Carlyle, M.H	744	Cheung, W	327
Brown, A	545	Carolan, A	300,311	Chew, E	356
Brown, D	191	Carrivick, S	323	Chew, J	339
Brown, H	544	Carroll, J	129,130,131,539,71	Chew, R.R	369
Brown, J.P	734,746,9	Carroll, M	346	Chi, C	782
Brown, S.J	246	Casagranda, F	32	Chiang, C	146,224,348,349,427,732,733,735,775
Brown, T	248	Cason, C	501	Chijimatsu, R	249
Brownfoot, F	49	Catford, S	142,376	Chikkaveerappa, K	381
Brownhill, A	342	Catt, S	116	Chin, P.Y	100,106
Bruce, K	730	Cavanagh, L	20	Chin, P.Y	113
Bruell, S	703	Cawthon, P.M	18	Chines, A	734
Brule', E	84	Cehic, G	410	Chipps, D.R	358
Bryan, E.R	48	Center, J.R	143,18,731,78,79	Chitturi, S	407
Bryant, C	36,40	Center, J	222,226,757,766	Chiu, L	753
Buchanan, C.M	704	Cervo, M	16	Chiu, P	589,596
Buckels, E.J	704	Cesana Nigro, N	28	Chivers, E	570
Bui, M	146	Chai, M	103,529	Chivers, P	751
Bulugahapitiya, U	359	Chai, R.C	76,77	Cho, E	173
Burgess, D	72	Chakraborty, A	561	Choi, Y	730
Burgess, J	383,384	Chakravorty, L	316	Chong, G	402
		Chalakov, S	370	Chong, W	368,54
		Chalhoub, T.T	524	Choo, A	302
		Chambers, R	411		
		Chamley, L.W	152,600		

Choo, N	303	Cousins, F	185	Dear, R	419
Chow, D	540	Cowley, D	331	Debruin, D	114
Chow, D.D	500	Cowley, M	85	Degabrielle, E	738
Choy, K	319,320,338,370,371	Coyle, C	573	Dekker, G	558
Christ-Crain, M	178	Crawford, R	708	Delforce, S.J	101,559,598,64
Christodoulou, J	213	Crean, A.J	607	Delforce, S.J	154
Christoforou, E.R	197	Crew, R	552	Délot, E	527
Christophersen, C	739	Crimeen-Irwin, B	14,702	Demster, D	734
Chu, S	300,302,306,311	Cripps, S.M	525	Deng, D	375
Chung, U	13	Croker, E.E	374	Dennison, E.M	737
Churchill, M.L	67	Crouch, G	223	Depczynski, B	387
Ciarrocchi, E	205,533	Croucher, P.I	76,77,78	Derbyshire, M	53
Clark, A.R	587	Cuffe, G	304	Desai, R	195,413
Clark, A	304	Cuffe, J.S	553	Desroziers, E	73
Clark, A.K	31	Cui, L	85	Devine, M	755
Clark, M.B	261	Cukier, K	432	Dhanekula, N	223
Clark, W	221	Cummings, S	745	Dhavan, R.S	160
Clark, X	607	Cummings, S.R	743	Dholakia, K	540
Clarke, G.S	554	Currie, P	240	Dholakia, K.K	500
Clifton, V	159	Czajko, A	87	Di Ieva, A	400
Clifton, V.L	28	d'Emden, M	313	Diamond, T	221,36,40
Clifton Bligh, R	223	d'Emden, M.C	565	Diamond, T.H	412
Clifton-Bligh, R	1,137,191,192,324,355,8	D'Silva, N	166	DiGiacomo, K	721
Close, J	729,730	Dack, M	42	Dimitriadis, E	107,185,190,530,561,62,64
Clouston, D	305	Daley, G	411	Dinh, T	134,508
Clulow, J	260,562	Dalla Via, J	6,736,742	Dodd, G.T	44
Cluver, C	112	Dalt, G.D	176	Doery, J.C	54
Clyne, C	165	Daly, J	240	Doery, J	368
Coates, D.E	705	Daly, R.M	6,736,761	Donaghue, K	166
Cochran, B.J	133	Dandash, O	194	Donaldson, N	73
Cole, L	105	Dao, A	706	Dong, Y	589
Cole, T.J	160,163,164	Darbey, A	509	Donoghoe, M.W	83
Colgrave, E.M	188	Darby, J.R	104	Dou, J	567
Collins, L	372,385,735	Darcy, P	193	Dover, T	435
Combes, A	241	Dasari, P	243	Dowland, S	187,595
Connolly, C	612	Davey, R	118	Dowling, D.k	182
Conrad, D.F	155,200,259	Davey, R.A	144	Doyle, B	102,552
Constancia, M	197	Davidoff, D	139	Doyle, J	223
Conti, D	373	Davila, R.A	263	Druart, X	98
Cook, L	535	Davis, A	426	Duckham, R.L	220,37
Cook, L.E	533	Davis, E.E	213	Dudbridge, F	246
Cooper, C	737	Davis, L.A	326	Dudley, J.S	534
Cooper, M.S	229	Davis, S	161,321,364	Duijkers, I.J	321
Corbett-Burns, S	400	Davis, S.R	214,57	Duke MD, FRACP, A	332
Corbisier, C	64	Davis, W	316	Duncan, E	728
Corbisier de Meaultsart, C	154	Davoren, P	333,395,433	Duncan, W.J	705
Corney, K.B	756	Day, M	187	Dunleavy, J	115,71
Corr, A.P	77	Day, M.L	516,608	Dunleavy, J.E	262
Cortes, C	307	de Alwis, N	114,555,588	Dunning, K	254,540,544,550
Cosman, F	745	De Courten, B	16	Dunning, K.K	500
Costa, M	729	de Geus, E	70	Dunning, K.R	157
Costelli, P	176	de Graaf, S	98	Duque, G.	147,170,19,6,738,762,763,770
Cottee, P.P	604	de Graaf, S.P	566	Duque, G.G	145,726
Cotterill, A	166	De Iuliis, G.N	204	Durongbhan, P	707,711,717
Couper, J	166	de Marco, A	578	Dutt, M	14,44
Courtman, N	700	Dean, C	318	Dwivedi, G	216
		Dean, S	437		

Easingwood, R.A	705	Fletcher, E.K	168	Genet, F	46
Ebeling, P	16,224,741,781	Fletcher, S	88	Genêt, F.F	245
Ebeling, P.R	52,733,752,759,760,761,772,773,80	Flicker, L	52	Genovese, R	70
Edgell, T	186	Flood, V	314	Georges, E	241
Edirimanne, S	329	Foidart, J	321	Ghadge, A.G	243
Edwards, M.C	133,92	Fong, S	597	Ghasem-Zadeh, A	140,146,177,774
Eguibar, J	307	Fong-Yee, C	20	Ghobrial, I	241
Eisenhofer, R	537	Fookerah, P	365	Ghorbanpour, S	556
Eisman, J	757,766	Forbes, J	24	Ghosh, A	504
El-Haddad, C	322	Forbes, J.M	166,310	Ghosh, G	323,381,382,52
Elangovan, V.R	567	Fotheringham, A.K	166,310	Gibb, Z	156,260,542,548,562,580,601
Ellis, A	223	Fourlanos, S	347,348,349,372,417,735	Gibb, Z.Z	604
Emery, A	127	Fournier, P.A	326	Gibbons, H	363
Endall, R	376,377	Foyle, K.L	507	Gibson, B.C	157
Engelbogen, B	385	Frankenberg, S	237	Gibson, D.A	184
Ensrud, K	766	Fraser, D.R	712	Gilchrist, J	399
Ensrud, K.E	18,731	Freire, T	607	Gilchrist, R.B	124,133,545,573,83,92
Er, P	241	Friedrich, C	200	Gild, M	137
Eriksen, E.F	9	Frost, E.R	541	Gild, M.L	324,355
Eslick, G	329,750	Frost, S	322	Gilfillan, C	418,421,771,781
Estermann, M	238	Frydman, A	775	Gill, A	355
Estermann, M.A	29	Frydman, A.S	346	Gill, A.J	430
Evans, J	186,593,594	Frysz, M	76	Girard, D.D	245
Ewing, A.D	28	Fuentes, E	409	Girgis, C	196,223,782,8
Eynon, N	770	Fuggle, N	737	Girgis, C.M	758,767,777,78
Fan, X	708	Fuller, P	141,165,338,368,55,56	Girling, J	188
Fanson, K.V	605	Fuller, P.J	300,302,306,311,317,352,388,54	Glastras, S	211
Farlay, D	734	Fullston, T	579	Glastras, S.J	430
Farley, J.K	591	Gabb, G	352	Glavas, C	16
Fato, B.R	555	Gajanayaka, R	575	Gogna, R	379,380,383,384,53
Fazio, T	733	Gajanayakage, R	612	Goh, B	310
Feehan, J	738	Gajera, J	324	Gold, D	592
Fegan, P	316	Galanos, J	432	Goldys, E	124
Feindel, K	102	Galbraith, J	536	Golledge, J	52
Felder, M	348,349	Gallego Romero, I	237	Golombick, T	40
Feldman, R	225	Gallo, L	212	Goltzman, D	143
Fenelon, J	535,536,96	Ganda, K	409	Golub, S	144
Fenelon, J.C	511	Gandham, A	16,741,752	Gonçalves, J	259
Feng, A	158,263	Gandomkar, Z	324	Goney, M.P	84
Feng, C	531	Gandra, S.R	39,744	Gong, J.Y	385
Fernandes, A	389,728	Gannon, A	509	Goodall, L	386,387
Fernandes, A.R	378	Gardner, D	131	Goodchild, G	200,84
Fernandez, C.C	261	Gardner, D.K	186,505,512,593	Goode, D.L	31
Ferrari, S	745	Garg, M	542	Gooi, J.H	171
Filby, C.E	602,606	Gargett, C	592,68	Gorkin III, R	257
Finger, B	546	Gargett, C.E	591,602,606	Gorsek Sparovec, T	592
Finger, B.J	526	Garnham, A	739	Gough, K	48
Fisher, J.J	553	Gaston, J	148	Gough, M	159
Fitzgerald, P	52	Gatford, K.L	554,560	Gowda, D	431
Fivelman, B	334	Gauthier, G	220,37	Graham, E	223
Flack, J	370	Gebre, A	742,759	Green, E.S	106,153,557
Flaws, J	546	Gebre, A.K	736	Green, E.S	113
Flehr, A	739,740,768	Gebski, V	221	Green, M	209,546
Fleming, W	46,716	Gemmell, N	90	Green, M.P	526
Fleming, W.W	245	Gemmell, N.J	21	Greenaway, T	386
Flemming, N	166			Greenfield, J	419,420
Flentje, K	379,380,383,384				

Greening, D	594	Harrison, N	432	Hockings, G	411
Gregorevic, P	176	Harrison, C	124	Hodge, J.M	38,727
Griffin, R	260	Harrison, C.A	200,239,84	Hodgson, J	742
Griffith, O.W	534,576	Harrison, K	204	Hodgson, J.M	6,736
Griffiths, M	185,209	Harrison, N	580	Hodson, M.P	168
Griffiths, M.J	132	Harrod, W	35	Hoehn, K.L	92
Grill, V	780	Hart, K.N	239	Hoermann, R	140,177,194
Grodski, S	368,55	Hart, N	751	Hoffmann, L.B	261
Gronthos, S	43,709,718	Hart, R	142,219	Hoffmann, P	710
Groom, K.M	588,600	Hartanti, M.D	506	Hogarth, C.C	524
Groome, H.M	153,560	Harvey, A.J	505,512,526,593	Hojo, H	13
Grossmann, M	108,140,144,177,194,346,402,427,607,717	Hartley, T	263	Holdsworth-Carson, S.J	188,67
Gruppen, C.G	548	Hashimura, H	388,54,760	Holloway-Kew, K	7
Grutzner, F	536,537	Hassall, J	225,39,743,744,745,746	Holloway-Kew, K.L	148,17,749,756
Gueguen, J.J	245	Hassett, G	322	Holman, S.L	104
Guilefoyle, S	42	Hastie, R	49	Holmes-Walker, J	758
Guillemin, G	726	Hauck, D	8	Hong, S	326
Gunawan, F	319	Hawley, J	739	Hor, A	215,327
Gunawardena, A	359	Hayes, A	114,145	Horii, C	737
Gunn, A.J	156	Hayes, L.J	404	Horlait, S	9
Gunton, J	161,191,196,301,314	Hayes, N	212	Hosking, S	7
Guo, E	701	Haynes, V.R	44	Hosking, S.M	747
Gurner, K.H	593	He, L	129	Hosking, S.L	153,560
Gurung, S	591,594,68	Headland, C	122	Hosseini, S	514
Gwini, S	141,319,331,352,54,56	Heather, A.K	111	Houston, B.J	155,200,259
Habashy, N.S	325	Hechtman, L	83	Hsiao, E	137
Habibalahi, A	124	Hedger, M	201,513	Hsieh, A	378,431,434
Hackman, K	426,753	Hedger, M.P	70	Hsu, H	704
Hafeez, U	437	Hegarty, T	132,209	Htike, S	390,391
Hagg, A	176	Heng, S	116,183,599	Hu, J	54
Haidar, M	176	Henneberg, M	148	Hu, Y	92
HajiMotallebi, E	709	Henry, A	588	Huang, L	85
Halim, B	776	Herath, M	210,376	Huang, S	734
Hall, E	566	Herrmann, M	762	Huang, Z	85
Halliday, J	142	Hertzog, P	70	Hull, M	183
Hamblin, S	406	Hesse, E	745	Hummitzsch, K	506
Hamilton, C	743,745	Hetherington, J	413	Humphrey, S.J	117
Hamilton, E	316	Hewison, M	195	Humphries, M	566
Hamilton, H	502	Hewitson, T.D	703	Hutchinson, A	237,535
Handelsman, D	140,142,217,59,94	Hiam, D	762,770	Hutchison, J	593
Handelsman, D.J	133,177,194,195,413,57	Hibbert, E.J	325	Hutchison, J.C	186
Hankey, G.J	216,52	Hidaka, N	779	Hutt, K	185,209,218,539,546
Hanley, D.A	143	Hime, G	213,581	Hutt, K.J	132,84
Hannan, A.J	261	Hime, G.R	32	Hutton, H	317
Hannan, F	781	Hitchens, P.L	700	Huynh, D	777
Hannan, N	114,22,49	Hng, T	314,315,332,357	Hyde, N	7
Hannan, N.J	112,151,555,569,588	Ho, J.T	369	Hyde, N.K	17,748,749
Hans, D	17	Ho, K.W	335,401	Ibeh, N	237
Hansen, L	222	Ho, W	545	Iidaka, T	737
Haravu, P	715	Ho, X	309	Ikegami, K	42
Harding-Davis, B	27	Ho-Le, T	222	Ikegawa, S	723
Hardy, M.L	608	Hoang, J	137	Ilango, S	526
Harkins, D	263	Hobbs, R	255,585	Imai, H	723
Harley, V	202,312,527,88	Hobbs, R.M	584	Imlay, E	20
Harper, A	49	Hock, D	213	Inder, W.J	177,28,405,53
Harrington, J	750	Hock, D.H	32		
Harris, M	166	Hocking, S	389		

Inderjeeth, C	35,51	Kaburaki, J	538	Kistler- Fischbacher, M	5
Indran, I.R	83	Kadife, E	49	Kizilelma, N	778
Indumathy, S	201	Kahl, F	740	Klein, E.E	604
Ingman, W.V	243	Kahl, R	598	Klein, E.K	156
Inose, H	720	Kahl, R.G	154	Kliesch, S	200
Investigators, M	303,305	Kaiser, S.M	143	Klipping, C	321
Irani, A	363	Kaitu'u-Lino, T	114,49	Knarston, I	241
Iriarte Diaz , J	715	Kaitu'u-Lino, T.J	112,151,555,569,588	Kobayashi, H	54
Isbel, N	166	Kalam, S	595	Koga, M	779
Ishihara, T	511,576	Kalionis, B	561	Köks, S	309
Ishikura, H	249	Källgård, J	740	Kolanu, N	143
Islam, R.M	214,57	Kam Draskau, M	531	Komla-Ebri, D	42
Islek, A	778	Kamalanathan, S	32	Koneshamoorthy, A	780
Ito, N	779	Kamali, F	538	Kong, G	230
Iuliano, S	146,19,91	Kanaan, R	194	Kong, Y	394
Jack, A	577	Kandel, M	112,151,569	Koopman, P	189
Jacques, M	770	Kane, S.C	588	Kopp, I	325
Jaehne, E	66	Kanis, J	19	Korneev, D	578
Jaillard, S	213	Kanki, M	165	Kotowicz, M	319,320,362,760
Jaipurwala , R	146	Karandagliadis, A	748,749	Kotowicz, M.A	148,17,764
Jakob, F	225	Kargl, J	592	Kovacevic, W	332
James, A	212	Kariyawasam, S	331	Kovacs, C.S	143,167
James, J.L	152,587,600	Karthigan, N	30	Kremer , R	145
Jankovic- Karasoulos, T	558	Kasmeridis, N	415	Krishna, S	333,395
Jansen, S	51	Kato, H	779	Krishnamurthy, B	780
Jansons, P	761	Kavanagh, B.E	756	Kristianto, E	168
Janssens, K	773	Keast, J.R	188	Kruger, M.C	4
Jarred, E	131,15,563,571,65,66	Keating, A	198	Kuek, V	169
Jauhar, N	53	Keelan, J.A	100	Kulina, I	46
Jayadiwangsa, E	328,392	Keenan, E	112,49	Kulina, I.I	245
Jenkins, T	181	Keerthikumar, S	31	Kuliwaba, J	710
Jenkinson, C	195	Kei-ichiro, I	510	Kuliwaba, J.S	231
Jensen, D	728,750	Kelly, A	322	Kulkarni, B	741
Jensen, J	745	Kelsey, L	102,552	Kumar, S	36,396,40,753
Jesudason, D	177	Kemp, J	206	Kung, L.H	702
Joergensen, A	241	Kemp, J.P	76	Kustermann, M	176
Joham, A	93	Kenny, J	169,701	Kutaiba, N	732
Johnson, B	39	Kent, T.C	577	Kwok, R	51
Johnson, D.W	166	Kerr, P.G	317	Kwon, J	511
Johnson, G	199	Keshvari, S	28	La, M	585
Johnston, A.P	172	Keskin, H	778	La Gerche, A	773
Johnston, S	96	Kevat, D	406	Ladyman, S.R	554
Jolley, J	372	Kheradi, M	730	Lafontaine, N	417
Jones, C.F	248	Khoo, W	76,77	Lagerstrand, K	740
Jones, G	755	Kiel, D.P	736,759	Lamande, S.R	702
Jones, R	240	Kim, A.S	78	Lamanna, A	732
Jones, T.W	326	Kim, B	87	Landen, S	770
Jones, T	166	Kim, J.J	48	Lane, N.E	18
Jose, B.B	245	Kimmins, S	208	Langdahl, B	225
Joseph, K.R	329,330,393	Kind, K	550	Langsetmo, L	766
Joshua, A	304	King, A.J	739,768	Lao, J	164
Josse, R.G	143	King, J	347	Larcombe, A	570
Jost, M	321	Kinra, S	741	Larsson, A	176
Jude, A	705	Kirby, B.J	167	Larsson, L	176
Jung, C	423,53	Kirkwood, P.M	184	Laskou, F	737
Jurczyluk, J	168	Kiss, N	761		

Lau, L	428	Lim, W	147	Ma, C	755
Lau, N	337	Lim, W.H	6,759	MacCallum, H	374
Lau, S	223,365,387	Lima, T.F	45	MacDonald, T.M	112,151
Lawrence, B	242,509	Lin, L	596	Macfarlane, E	20
Lawrence, B.M	528	Lin, M	335,401	Mackie, E.J	700,721
Lawrence, M	304	Lin, X	170,762,763,770	Magaziner, J	729
Lawrence, M.G	303,31	Lindsay, L	187,595	Mah, P	328,410
Lawson, E.F	542	Lindsay, R	42	Mahbub, S.B	124
Lawton, A	42	Ling, N	14	Mahfuza, U	325
Laybutt, R	162	Ling, S.H	754	Mai, H	322
Lazarus, S	360,366,728	Litsne, H	768	Maier, A.B	733
Le, J	538	Little, D.G	706	Major, A.T	29
Le Bagge, S	310	Little, M	241	Maker, G.L	577
Le Tran, N	609	Liu, C	340	Makras, P	225
Learoyd, D	137,398	Liu, H	711	Malliaris, C	217
Ledger, W.L	133,83	Liu, J	129	Maloney, M	212
Lee, C	589,596	Lochrin, A.J	559	Maloney, S	575,612
Lee, G.B	747	Locke, P	342,345	Mann, J	129
Lee, I	129,406,71	Lockett, J	28	Manning, L	216
Lee, J	55,729,730	Lockie, S.H	27	Manoharan, A	40
Lee, J.J	397	Lockwood, S	30	Manoharan, V	337,408,429
Lee, K	597,597,63	Logan, J	517,603	Manoleehakul, P	772
Lee, K.L	704	Loi, S	132	Mansell, A	107
Lee, L	714	Long, K	331	Maple-Brown, L	26,772
Lee, M	394	Lopes, A	259	March, L	731,79
Lee, Y	597,63,710	Lopez-Tello, J	197	Marinova, M	124
Leemaqz, S	558	Lord, R	318	Marinova, M.B	545
Leemaqz, S.Y	774	Lord, T	203,501,69	Mark, P	575
Leon Carlos, N	202	Lorentzon, M	739,740,768	Markert, U	592
Leow, K	759	LOUANJLI, D	551	Marques, F	739
Lespessailles, E	745	Love, A	366	Marriott, R.J	216
Leung, D	311	Loveland, K	201,514,581,582	Marshall, S	185
Leury, B.J	721	Loveland, K.L	176,217,513,530,584	Marshall, S.A	525
Levesque, J	46,716	Lovell, E.A	560	Martin, J.H	598,64
Levesque, J.J	245	Lovell-Badge, R	541	Martin, P	420
Levinger, I	110,147,170,52,738,762,763,770	Lovric, V	545	Martin, T.J	171
Lewis, D	334,398,399,400	Low, C	313	Martin, T	14,172,411
Lewis, J	742,759	Low, G.K	325	Märtson, A	309
Lewis, J.R	147,6,736,762,763,770,772	Lu, J.C	402,403	Masci, J	151,569
Lewis, S	142	Lu, J	51	Mason, R.S	712
Li, L	345	Luan, H	200	Masuyama, R	713
Li, Q	54	Luan, T	155	Mather, A	8
Li, R	63	Lubell, W.D	100	Matthews, B.G	150,704
Li, Y	116,183,568,599	Lucic Fisher, S.G	610	Mattiske, D	103
Li, Z	305	Lumbers, E.R	101,559,598,64	Mattiske, D.M	525,529,532
Liao, L	44	Lumbers, E.R	154	Mayadunne, M.J	409
Liao, S	169	Lumchee, M.W	404,405	McBain, J	142
Liao, W	148	Lundberg, M	76	McCallum, A	379,380
Libanati, C	225,745,9	Luo, J	406	Mccann, M	316
Libianto, R	141,317,338,352,368,55	Luong, D	407	McCarthy, D.J	171
Liddle, K	212	Lurie, B	324,355	McCarthy, D.A	166,310
Lien, S	83	Luttrell, M	375	McCarthy, J	781
Lim, E	147,323,382,58	Luu, J	303,374	McCaughan, G	77
Lim, L	758	Luu, M.C	217	McClements, L	105
Lim, M	544	Luu, M.M	584	McCloskey, E	743
Lim, M.M	500	Lynch, G.G	44	McClung, M	39
Lim, R	571	Lyons, H.E	515	McConell, G.K	560

McDonald, M.M	36,78	Mohebbi, M	764	Nathaniel, B	582
McFarlane, T	774	Mojadadi, A	611	Neal, K	211
McGhee, N	517,603	Moldenhauer, L.M	106,153,557,560	Nef, S	242
McGloin, C	314	Moldenhauer, L.M	113	Nelson, M.R	57
McGowan, E	14	Molendijk, J	44	Nenke, M.A	138
McGrath, K	105	Moletta, L	176	Neoh, S	437
McGregor, N	15,65	Moll, L	411	Nerlekar, N	80
McGregor, N.E	167,171,173,45,702	Moody, S	514	Nery, M	223,8
McKelvie, P	432	Moody, S.C	530	Newman, E	409
McLachlan, R	142,210,377	Moore, J	77	Newman, T	511
McLaughlin, E.A	547	Morahan, G	166,701	Newnham, J	12
McLeod, D.S	565	Morales Ledesma, L	307	Ng, C	701,751,752
McLeod, M.D	195	Moreno-Asso, A	170	Ng, E	338,339,351,597,63,753
McNeil, J	410	Morgan, J	165	Ng, J	160,164,58
McNeil, J.J	57	Mori, R	713	Ng, P	149
McPherson, N	502,549,579	Morimoto, A	128,134	Ng, Y	44
McVicar, E	261	Moritz, K	233,72	Ng Tang Fui, M	177,427
Meakin, A.S	104,159	Morosin, S.K	598	Ngo, L	771
Media Sanchez, M	256	Morosin, S.K	154	Ngui, K	322
Medica, A.J	580	Morris, A	750	Nguyen, H	224,416,780
Meehan, L	411	Morris, J.A	412	Nguyen, H.H	760
Megighian, A	176	Morris, M.J	162	Nguyen, H.T	754
Mehari Abraha, H	715	Morris, M.B	516,608	Nguyen, H.G	754
Meinhardt, A	201,513	Morrison, J.L	104	Nguyen, M	758
Melek, M	396	Mortiz, K	212	Nguyen, N	546
Mellor, R	191	Morton, A	166	Nguyen, T	112,151,222,302,306,311,569,766
Menkhorst, E	107,185,190	Moulaison, A	743	Nguyen, T.V	754
Menzies, A	191	Mount, P	146,775	Ni, H	413
Menzies, A.M	192	Mrozik, k	127	Ni, W	340
Mercado-Asis, L	730	Mueller, J.W	195	Nicholls, K.M	703
Merigliano, S	176	Muir, C.A	192	Nicol, B	508
Merriner, D	200,262	Mulhall, J.E	117	Nie, G	116,183,186,568,599,609
Merriner, D.J	578	Mulia, O	306,311	Nie, T	144
Merriner, J	115,155,259	Mullin, B	149	Nies, M	414
Mesinovic, J	16,752,763	Mullin, B.H	246	Nilajgi, S	415
Meyer, E.J	138	Mullin, S	246	Nisbet, J	166
Micati, D	581	Mullins, T	310	Nixon, B	117,124,203,204,501,547,562,574,583,
Middendorff, R	201	Munns, C	714,728,758	Nolan, B.J	28,342,343,344,345,346
Mihalic, Z	592	Munns, C.F	750	Nosrati, R	47
Mikaheal, Y	374,414	Munoz, M.A	168	Nottle, M	549,550
Milat, F	224,760	Muñoz de la Torre, L	307	Novakovic, B	87
Millard, S.S	245	Muratovic, D	710	Nowell, C.J	188
Miller, K	204	Murphy, B	81	Nuttall, P	141
Minahan, C	109	Murphy, C	112,595	O'Bryan, M	115,142,71
Ming, Z	312	Murray, K	216,374	O'Bryan, M.K	155,200,258,259,262,578
Mishra, A	743	Murthi, P	561	O'Connell, M	119
Miskiewicz, J.J	42	Myers, J	112	O'Connell, R	8
Mitchell, A	773	Nagirnaja, L	155,259	O'Connor, A	115,155
Mitchell, M.D	517,603	Nainani, A.K	336	O'Connor, A.E	200,259,262
Mitchell, P.J	729,730	Nairn, L	223	O'Donnell, L	217,242
Miyahara, J	249	Nakamura, M	719	O'Donohue, A.K	714
Miyamoto, Y	582	Namboodiri, D	337,357,408	O'Hara, S.E	153
Mohammad Ebrahim, M	362	Napso, T	197	O'Moore-Sullivan, T	166
Mohammed, R	504,64			O'Rourke, J	416
Mohanty, S	78			Oates, M	225,743
				Obaid, M	370



Oberin, R	131,15,563,65,66	Perera, N	436	Quinn, R	36
Ockwell, J	772	Perera, T.R	562	Radhakutty, A	136,328
Ohba, S	13	Perkins, T	234	Rafeld, P	747
Okada, H	13,249	Perkins, T.V	553	Rai, A	594,743
Okawa, A	720	Perry, T	537	Rainczuk, K	107
Okuda, H	262	Petautsching, S	15,563,65,66	Ramakrishna, R	40
Oliveira, C	69	Petautschnig, S	131	Ramm, S	303
Oliveira, T	746	Peters, A.E	547	Rana, A	49
Olson, D.M	100	Peters, S	336	Ranasinghe, U	564
Omata, Y	249	Petersen, S	588	Rando, L	356
Orford, N.R	764	Pettit, A.A	245	Rankin, W	138
Osterberg, E	120	Peymanfar, Y	41	Raubenheimer, D	607
Oud, M.S	258	Pezzini, C	176	Raven, L	419,420,757
Oyston, C	600	Pham, C	418	Ravinthiran, R	201
Ozturk, N	778	Phan, T	77	Raviskanthan, M	347,348,349,421,422
O'Donohue, A	706	Phillips, W.A	171	Rayhanna, M.H	516
Pace, M	339	Philp, L	252	Raymond, W	51
Pacella-Ince, L	502	Pierobon, E.S	176	Rebourcet, D	242,308,509,528
Pachernegg, S	241	Pini, T	98	Reed, N	509
Padmanabhan, V	133,567	Piper, M	263	Reid, C	56
Page, A.J	554	Piskopos, J	591,68	Reid, C.M	57
Page, A.T	747	Pleuger, C	201	Reid, N	212
Pagel, C.N	700,721	Poci, N	775	Reid, R.R	715
Palacios, S	220,37	Poh, Q	594	Reif, P	592
Palaniappan, R	414	Poljak, A	124	Reijnierse, E.M	733
Palaniswami, M	49	Pollard, C.L	548	Renfree, M	536
Pan, F	755	Ponzoni, A	176	Renfree, M.B	511,532,534,576,96
Panagiotopoulou, O	715	Pool, K	575	Reyes, A	312,527
Pang, K	87	Pool, K.R	577,612	Reyes, M	412
Pang, T.Y	261	Poon, M	750	Rhou, Y	758
Pangestu, M	116	Porter, G.C	705	Ribet, A.B	149
Papalini, E	740	Porter, L	193	Ricardo, S	561
Papini, M	570	Porter, L.H	31	Richani, D	124
Paramalingam, N	326	Poulton, I.J	167,173,702	Richard, K	565
Parameswaran, S	509	Powell, R	743	Richards, C	556
Parivesh, A	527	Prasadam, I	708	Richards, C.I	105
Park, Y	417	Preda, M	334	Richards, M	304
Parker, B.L	14	Preda, T	334,399	Rickard, A	165
Parker, B.L	44	Preda, V	334,398,399,400	Rickard, J	98
Parker, L	770	Preda, V.A	318	Rickard, J.P	566
Pasco, J	7,760	Prescott, M	73	Riepsamen, A.H	83
Pasco, J.A	148,17,38,727,747,748,749,756,764	Prewer, G.G	526	Risbridger, G	193,304,305
Pask, A	103,237,535,538	Prince, R	147,742	Risbridger, G.P	303,31
Pask, A.J	205,525,529,532,533,585	Prince, R.L	6,736,759	Rismiller, P	537
Paule, S	183	Pringle, K.G	101,250,547,559,598,64	Ritchie, M	571
Pavlos, N	169,247	Pringle, K.G	154	Rivers, N	240
Pavlos, N.J	149,246	Prior, J.C	143	Rizzo, S	734
Pederson, S	131,15,563,65,66	Pritchard, N	112,588	Roach, P	137
Peiris, H	517,603	Proietto, J	343,344	Roberts, C.T	558
Pelosi, E	189	Puttabyatappa, M	567	Robertson, C.L	52
Penna, F	176	Qian, H	176	Robertson, D.M	83
Pennell, C	126	Qin, A	169	Robertson, S.A	100,106,153,203,507,515,557,560
Peppas, Z	84	Qu, Z	131,15,563,65	Robertson, S.A	113
Perampalam, S	391	Quarrington, R.D	248	Robevska, G	213,241,32
Percival, M	747	Quezada Urban, R	31	Robinson, B	137,355
Percival, M.A	7,748			Robinson, P.J	214
				Robker, R	127,128,129,134,508

Robker, R.L	243,244	Salamonsen, L.A	186	Sharkey, D.J	243,515,557
Robledo, K.P	177	Salga, M	716	Shaw, G	511,532
Roby, H.C	326	Salga, M.M	245	Shaw, M	537
Rodda, C	750	Salib, M	391	Shearwin, K	536
Rodgers, R.J	506	Samad, N	760	Shearwin-Whyatt, L	536
Rodrigo, N	430	Samarajeewa, N	116,183	Shehadeh, H	579
Rodriguez, A	16,742	Samarasinghe, R	38,727	Shekibi, M	599
Rodriguez, A.J	759,80	Samuel, C	561	Shen, J	141,338,352,54,55
Rodriguez, M	400	Samuel, S	716	Shepherd, R	87
Rodriguez Paris, V	133,573,92	Sanaei, R	721	Sheridan, a.R	562,580
Roelfsema, F	85	Sanders, K	19	Shetty, V.B	326
Rogers, M.J	168	Sandovici, I	197	Sheu, A	143
Rogers, P.A	188,67	Sandri, M	176	Shi, Y	9
Rogers, R	103	Sangla, K	411	Shirish Mysore, R	740
Rohl, P	396	Sant, S	132	Shore-Lorenti, C	772
Rohl, P.G	412	Santos, L	107,62	Short, K.L	160,164
Rojeski, M	225	Sararols, P	242	Short, K	251
Roman, S.D	203,547,574	Sarlos, S	210,377	Shoung, N	424
Romano, T	112	Sartori, R	176	Siafarikas, A	750,751
Rombauts, L	142,183	Sasson, S	191	Siddall, N	32
Rose, R	128,544	Saunders, P.T	184	Siddall, R	355
Rosi, L	753	Savarirayan, R	207	Sidhu, S	137
Ross, C.F	715	Savin, S.J	113	Sillars, B	367
Rossi, G	577	Savkovic, S	413	Silva, M.O	707,711,717
Rothzerg, E	309	Sawyer, M	423	Silverman, S	39
Rowley, L	702	Schachna, E	317	Sim, I	210,377,733
Ruan, H	597	Schadow, J.E	707,711,717	Sim, M	147,6,736,742,751,759,762,772
Ruderman, I	703	Schartner, E	49	Simm, P	2,750
Rufus-Membere, P	748,749	Schartner, E.E	500	Simmons, D.G	569
Rufus-Membere, P.G	17	Schembri, G	137	Simpson, I	368
Ruitenbergh, M	46	Schemitsch, E	746	Simpson, K.J	303
Ruiz-Herrera, A	99	Schindeler, A	706,714	Simpson, S	345
Rushworth, L.L	138	Schjenken, J	601	Simpson, S.J	607
Russell, D	127,128,134,180,508	Schjenken, J.E	117,203,507,574,583	Sims, N.A	14,15,167,171,172,173,45,65,702
Russell, D.L	244	Schmidli, R	413	Sims, N.A	44
Russell, G	141,336,56	Schoell, W	592	Sinclair, A	241
Russell, H	408,429	Schofield, L	598	Sinclair, A.H	213
Russell, N	140,194	Schofield, T	714	Sinclair, A.H	32
Ryan, B.A	167	Scholes, G	351	Sinclair, D.A	545
Ryan, J	312,317,527	Schousboe, J.T	736,759	Skerrett-Byrne, D	124,501
Rybchyn, M.S	712	Schroder, K.K	245	Skerrett-Byrne, D.A	117,203,562,574,64
Rye, K	133	Scott, D	16,6,741,751,752,759,761,763,772	Skiba, M.A	214
Saadat, N	567	Seeho, S	503,588	Skillen, N	69
Sabanathan, D	399	Seeman, E	146,19,774	Skinner, O.P	168
Sadowski, P	517	Seibel, M.J	20	Slatkonska, L	746
Saffery, R	142,87	Seki, M	13	Smiles, W	14
Said, J.M	588	Selesniemi, K	545	Smith, C	147,170,238,738,762,763,770
Saif, Z	159,28	Sergio, C	77	Smith, C.A	29
Saini, A	502,549	Sesaki, H	129	Smith, E.R	703,765
Saini, S	561	Seymour, C	372,385	Smith, G.J	326
Saito, T	13,249	Seymour, H	729	Smith, H	361
Sakthivel, A	418	Sferruzzi-Perri, A	197	Smith, I.K	425
Salah, W.W	503	Sgroi, G	561	Smith, J.T	77
Salamonsen, L	594	Shah, D.P	92	Smith, K.A	44
		Shang,	715	Smith, K	128,134
		Shankie-Williams, K	187		

Smith, L.B	179,242,308,509	Suzuki, S	576	Thompson, T.B	239
Smith, L.B	528	Suzuki, Y	13,249	Thomson, E	189
Smith, M.D	558	Svedbom, A	19	Thomson, R.E	176
Smith, N	260,718	Svingen, T	531	Thorburn, D.R	166,213
Smith, S	509	Swegen, A	156,260,548,562,601	Thorburn, D.R	32
Sokolov, V.U	44	Symington, T.L	101	Tian, J	755
Sokolowski, K	310	Symon, A	312	Tickner, J.A	48
Solanki, P	352	Sywak, M	137	Tickner, J	169,701
Solon-Biet, S	610	Sztal-Mazer, S	351,364	Tilley, W.D	135
Solon-Biet, S.M	607	Szulc, P	759	Timoshanko, J	39
Sominsky, L	86	Szwarcbard, N	426	Ting, J	51
Sorby, K	209	Tacey, A	762,763,770	Tiong, M.K	765
Spanner, E.A	566	Tacon, L	137	Todd, E	97
Spanos, C	774	Takao, T	719	Toivanen, R	305,31
Spencer, S	75,86	Takarada, T	719	Tong, S	112,114,125,151,49,555,569,588
Sperti, C	176	Takasato, M	241	Tongpob, Y	102,552
Spiller, C	158,263,572	Talbot, A.S	703	Tonkin, A.M	57
Spiller, C.M	531	Talevski, J	19	Topliss, D	339,753
Sreenivasan, R	213,32,70	Tamessar, C.T	583	Topliss, D.J	53
Sriravindrarahah, A	389	Tan, A	427,428	Torpy, D.J	138
St. John, J.C	506	Tan, C.T	500	Touraine, P	213
Stanger, S	203	Tan, C	540,85	Toussaint, N.D	765
Stanger, S.J	69	Tan, H	374	Toussaint, N	146
Stathatos, G	115	Tan, J	149,751	Trainor, L	722
Steane, S	233	Tan, S	356,765	Tran, A	209
Stefanidis, A	175	Tanaka, S	13,249,737	Tran, T	143,18,222,311,706,731,757,766,79
Stephen, C.P	156	Tanaka, T	720	Tran, T.S	754
Stephens, A	609	Tani, S	13	Trapani, J	193
Stephens, A.N	64	Tanwar, P	504	Tremonti, J	322
Stévant, I	242	Tanwar, P.S	82	Trigg, N.A	203,583
Stilwell, G	379	Tapmeier, T	591	Trim, L.K	48
Stock, O	588	Tarar, A	721	Tripodi, N	738
Stocker, W	124,84	Tarride, J	746	Trujillo Hernández, A	307
Stocker, W.A	239	Tarulli, G.A	532	Truong, M	131
Stok, K.S	707,711,717	Taylor, G	541	Truong, Q	360
Stollenwerk, B	39	Taylor, R	193,304,305	Truong, T.T	512
Stowasser, M	141,331,56	Taylor, R.A	303,31	Tsai, T	116,131,563,65,66
Stranks, S	136	Teasdale, S	166	Tsang, V	191,192,355
Strauss, B.J	760	Teede, H	11,89	Tsangari, H	248
Stringer, J	131,539,546	Tejo, E	310	Tse, B	310
Stringer, J.M	132,50,84	Temple-Smith, P	240	Tseng, H	46,716
Stroud, D	213	Tesha, T	15	Tseng, H.H	245
Stroud, D.A	32	Thach, B	116	Tucker, E.J	213
Stuart, A	19	Thackeray, M	764	Tucker, E.J	32
Stuart, A.L	38,727,756	Thakker, R	781	Tuckermann, J	20
Stuckey, B	58	Thambyaiyah, M	429	Turner, B.J	176
Stuckey, B.G	177	Theocharous, C	412	Turner, N	517,603
Su, Y	41,724	Thillainadesan, S	436	Tüttelmann, F	200
Sucquart, I.E	573	Thomas, G.G	245	Twigg, S	436
Sui, S.X	756	Thomas, M	23,407	Tyson, K	606
Sullivan, M.A	166,310	Thomas, S	407	Ullah, F	213
Sumithran, P	343,344	Thomas, T	225	Ullah, S	211
Sun, C	600	Thomasius, F	220,37	Umargamwala, R	585
Sundh, D	740	Thompson, C	136	Umehara, T	128
Sutherland, J.M	541,547	Thompson, J	10,544	Upreti, R	210,356,376,377
Sutherland, T	88	Thompson, J.G	157	Valbe, E	163
		Thompson, J.J	500		

Valmosoni, M	176	Wang, Y	568,599,609,64	Wlodek, M.E	112
Van de Velde, H	183	WANG, Z	723	Woessner, M.N	762,768,770
van den Bergen, J	213,32	Ward, G	411	Wolfe, R	57
van den Buuse, M	66	Wardrop, R	323	Wong, D	545
van der Heijden, G.W	258	Warren, A.M	397	Wong, G.P	569
van der Meulen, M	33	Waters, P	99	Wong, G	759
Vandenput, L	739,740,768	Watson, M	704	Wong, J	436
Vandyke, K	722	Watt, K.I	176	Wong, K	56
Vaquette, C	46	Watts, A	376	Wong, L	202
Varadarajan, S	776	Watts, G	58	Wong, M	433
Varshney, S	62	Waugh, S.J	601	Wong, P	342
Vasilev, K	248	Webb, R	708	Wong, T	370
Vasiljevski, E	706	Wee, N.K	44	Wong, V	408
Vaswani, K	517,603	Wee, N.K	171,45	Wood, D	309
Vekeman, F	220,37	Weeks, B.K	5	Woode, M	56
Veltman, J.A	258	Weinberg, K	743	Woodward, A.P	721
Venkatesh, V	144	Wellala, V	359	Wootton, E	360
Verheyden, M.J	430	Werkmeister, J	68	Worley, S	48
Verner, E	409	West, E.C	756	Wraight, P	372
Verrills, N.M	64	Western, P	131,538,563,571,66	Wraight, P.R	385
Vestergaard, P	222	Western, P.S	15,65	Wu, F.C	216
Viana, L.R	176	Whatley, E.G	505	Wu, L	191
Viardot, A	215	Wheeler, L.L	245	Wu, L.E	545
Vidyasagar, S	431	Wheeler, M	739,740,768	Wu, M	85
Vijeyakumar, L	359	Whiddett, R	166,310	Wu, T	389
Vilain, E	527	Whiley, P	217,582	Wu, X	708
Vincent, A	760	Whiley, P.A	584	Wu, Y	361,782
Vining, B	312,527	White, A	30	Wyatt, K.A	606
Vlahos, A	87	Whittington, C	235	Wynne, K	374,414
Vogrin, S	19,726	Whitton, C.R	700	Wyrwoll, C	102,236,552
Voisin, S	770	Whitty, A	550	Wyrwoll, C.S	570
Vollenhoven, B	183	Wiese, M.D	104	Wyrwoll, M	200
Vora, P	392	Wigg, S	391	Xavier, M.J	258
Vu, T	776	Wijayarathna, R	201,513,70	Xavier, S	86
Walker, D	227	Wijayawardana, A	409	Xian, C	41,724
Walker, E.C	171,173,45,702	Wijeratne, T	359	Xiao, Y	168,708,714,78
Walker, J.R	106	Wijetunga, U	359	Xie, M	434
Walker, S.P	112,151,588	Wijewardene, A	137	Xiong, T	133
Walker, T	772	Wilhelm, D	585	Xu, C	16
Walker, V	744	William, J	432	Xu, J	169,246,309,701
Wallace, M.J	160	Williams, G.R	42,76	Xu, S	340
Walsh, J.P	246	Williams, L	7	Xu, W	602
Walsh, W.R	545	Williams, L.J	38,727,747,756	Yagoub, D	149
Walters, J.L	574	Williams, S	238	Yagoub, S.H	157
Walters, K	545	Wilson, H	566	Yamada, D	719
Walters, K.A	133,573,92	Wilson, I	537	Yamanaka, H	713
Walton, K	200	Wilson, S	317	Yang, J	141,228,30,317,331,336,338,352,368,5
Walton, K.L	239,27,84	Wilson, S.G	246	Yang, W	225,745
Wang, B	124	Wilton, S	88	Yano, F	249
Wang, C	758	Winbanks, C.E	176	Yao, H	508
Wang, D	200	Windahl, S	173	Yap, S	771
Wang, M	357,358,767,777	Winship, A	107,185,209,539,546	Yates, C	347,348,349,422,733,735
Wang, Q	546	Winship, A.L	132,84	Yates, C.J	406
Wang, X	774	Winstanley, Y.E	244	Yeap, B	61
		Wittert, G	25	Yeap, B.B	177,216,52
		Wittert, G.A	177	Yehoshua, A	744
		Witting, P	611	Yeoh, W	416

Yeung, W	597,63	Zahra, P	700	Zhang, Q	129,130,131,71
Yong, E	83	Zajac, J	140,87	Zhang, R	58
Yong, H.E	197	Zajac, J.D	144,177,194,342,345,346,397,402,403,778	Zhang, Y	724
Yong, J.S	5	Zakar, T	101	Zhen, X	414,436
Yoshimura, N	737	ZAKARIA, D.M	551	Zheng, M	708
Yoshimura, T	42	Zamerli, J	78	Zhou, H	20
Younan, A	548	Zampieri, S	176	Zhou, W	107,190,62
Young, M	141,165,30,331,56	Zanchettin, G	176	Zhu, J.J	437
Young, M.J	352,565	Zander-Fox, D	502	Zhu, J	193
Young, R.L	554	Zanganeh, P	176	Zhu, K	246,6,736,751
Young, S	212	Zannettino, A	127	Zimmermann, A	328
Youngson, N.A	162	Zannettino, A.C	722	Zulman, I	38
Yu, C	435	Zarekookandeh, N	170,762,770		
Yu, H	536	ZARQAOU, D	551		
Yu, J	162	Zebaze, R	224		
Yu, Z	745,761	Zengin, A	16,772,773		
Yuan, J	701	Zenker, J	115		
Yuen, W	129,130,71	Zerafa, N	539,546		
Zaccaria, C	767	Zhang, J	107,55		
Zacharin, M	750				