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WELCOME FROM THE PRESIDENTS

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

OTHER MEETINGS OF INTEREST

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<th>Event</th>
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<tr>
<td>ESA Seminar Meeting 2022</td>
<td>29 April – 1 May 2022</td>
<td>Albert Hall, Launceston, Tasmania</td>
<td><a href="http://www.esaseminar.org.au">www.esaseminar.org.au</a></td>
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<tr>
<td>ESA Clinical Weekend 2022</td>
<td>11 – 13 November 2022</td>
<td>Christchurch, New Zealand</td>
<td><a href="http://www.esaclinicalweekend.org.au">www.esaclinicalweekend.org.au</a></td>
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<tr>
<td>ANZBMS-MEPSA ASM 2022</td>
<td>1 – 4 August 2022</td>
<td>Gold Coast Convention &amp; Exhibition Centre</td>
<td>anzbmsconference.org</td>
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<tr>
<td>ESA-SRB-APEG-NZSE ASM 2022</td>
<td>13 – 16 November 2022</td>
<td>Te Pae, Christchurch, New Zealand</td>
<td><a href="http://www.esa-srb.org.au">www.esa-srb.org.au</a></td>
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EVENITY® works differently* to treat osteoporosis

*EVENITY builds bone rapidly by simultaneously increasing bone formation and decreasing bone resorption with 12 monthly doses in patients who need it the most

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


For more information on EVENITY®, or to report an adverse event or product complaint involving EVENITY®, please contact Amgen Medical Information on 1800 803 638 or visit 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.

EVENITY 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, 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/Evenity.Pi. Reference: 1. EVENITY® (romosozumab) Approved Product Information. Available at: www.amgen.com.au/Evenity.Pi

SOCIETY SECRETARIATS

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

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Fax: 03 8658 9531
SocietyReproductiveBiology@gmail.com
Contact person: David Sharkey
www.srb.org.au

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Jim.f@asnevents.net.au
Contact person: Jim Fawcett
www.asn.events

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MATER HOSPITAL
MITCHELL LAWRENCE
MONASH UNIVERSITY

SRB PROGRAM CO-CHAIRS

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UNIVERSITY OF MELBOURNE
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GARVAN INSTITUTE OF MEDICAL RESEARCH
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CHILDREN'S HOSPITAL AT WESTMEAD
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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
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<td>Mercy Hospital for Women, University of Melbourne</td>
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<tr>
<td><strong>Andrew Pask</strong> (Co-Chair)</td>
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<td>University of Melbourne</td>
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<tr>
<td><strong>John Schjenken</strong> (Co-Chair)</td>
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<tr>
<td>University of Newcastle</td>
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<td><strong>Elizabeth Bromfield</strong></td>
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<td><strong>Fiona Brownfoot</strong></td>
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<td>University of Melbourne</td>
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<td><strong>Simon de Graaf</strong></td>
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<td>University of Sydney</td>
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<td><strong>Jane Girling</strong></td>
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<td>University of Otago</td>
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<td><strong>Mark Green</strong></td>
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<td>University of Melbourne</td>
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<td><strong>Natalie Hannan</strong></td>
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<td>University of Melbourne; Mercy Hospital for Women</td>
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<td><strong>Karla Hutt</strong></td>
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<td>Monash University</td>
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<td><strong>Brett Nixon</strong></td>
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<td><strong>Angelique Riepsamen</strong></td>
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<td>University of New South Wales</td>
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<td><strong>Darryl Russell</strong></td>
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<td><strong>Jeremy Smith</strong></td>
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<td><strong>Kelly Walton</strong></td>
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<td><strong>Patrick Western</strong></td>
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<td><strong>Christian Girgis</strong> (Clinical Co-Chair)</td>
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<td>Westmead and Royal North Shore Hospital</td>
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<td><strong>Michelle McDonald</strong> (Basic Science Co-Chair)</td>
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<td><strong>Craig Munns</strong> (Clinical Co-Chair)</td>
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<td><strong>Dawn Aitken</strong></td>
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<td>Menzies Institute for Medical Research, University of Tasmania</td>
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<td><strong>Agnieszka Arthur</strong></td>
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<td><strong>Dana Bliuc</strong></td>
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<td><strong>Sarah Hosking</strong></td>
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<td>Deakin University</td>
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<td><strong>John Kemp</strong></td>
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<td><strong>Julia Kuliwaba</strong></td>
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<td><strong>Victoria Leitch</strong></td>
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<td><strong>David Scott</strong></td>
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<td><strong>Marc Sim</strong></td>
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<td>Edith Cowan University</td>
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<td><strong>Kathryn Stok</strong></td>
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<td><strong>Scott Youlten</strong></td>
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<td>Garvan Institute of Medical Research</td>
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<td><strong>Ayse Zengin</strong></td>
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Giving patients with obesity the personalised support they need

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

Curious about Contrave? Learn more at contrave.com.au

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 (≥18 years) with an initial Body Mass Index (BMI) of ≥30 kg/m² (obese) or ≥27 kg/m² to <30 kg/m² (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 (MAOIs). 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 cases when bupropion is co-administered with other serotonergic agents and in overdosage 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 CYP1A2 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

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 (≥18 years) with an initial Body Mass Index (BMI) of ≥30 kg/m² (obese) or ≥27 kg/m² to <30 kg/m² (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 (MAOIs). 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 reports 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 overdosage 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 CYP1A2 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

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Bu Beng Yeap

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Ann McCormack

Secretary
Mathis Grossmann

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Belinda A. Henry

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Councillor
Ada Cheung

Councillor
Shane Hamblin

Councillor
Diana Learoyd

Councillor
Emily Mackenzie

Councillor
Frances Milat

PAST ESA OFFICE BEARERS 1958-2021

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<tr>
<th>YEAR</th>
<th>PRESIDENT</th>
<th>PRESIDENT ELECT</th>
<th>SECRETARY</th>
<th>TREASURER</th>
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<td>1958-60</td>
<td>E. Downie</td>
<td>P. Taft</td>
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<tr>
<td>1960-62</td>
<td>C. W. Emmens</td>
<td>K. Harrison</td>
<td>K. Harrison</td>
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<td>1962-64</td>
<td>K. Harrison</td>
<td>I. Thomas</td>
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<td>1964-66</td>
<td>B. Hetzel</td>
<td>V. Trikojus</td>
<td>I. Jarrett</td>
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<td>1966-68</td>
<td>B. Hudson</td>
<td>V. Trikojus</td>
<td>R. Melick</td>
<td>I. Jarrett</td>
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<td>1968-70</td>
<td>P. Taft</td>
<td>R. Cox</td>
<td>R. Melick</td>
<td>I. Jarrett</td>
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<td>1970-72</td>
<td>I. Jarrett</td>
<td>K. Ferguson</td>
<td>T. J. Martin</td>
<td>L. Lazarus</td>
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<tr>
<td>1972-74</td>
<td>K. Ferguson</td>
<td>L. Lazarus</td>
<td>R. D. Gordon</td>
<td>L. Lazarus</td>
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<tr>
<td>1976-78</td>
<td>S. Posen</td>
<td>J. P. Coghlan</td>
<td>P. E. Harding</td>
<td>C. J. Eastman</td>
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<td>1978-80</td>
<td>J. P. Coghlan</td>
<td>C. J. Eastman</td>
<td>R. G. Larkins</td>
<td>J. W. Funder</td>
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<td>J. W. Funder</td>
<td>D. P. Cameron</td>
<td>G. L. Warne</td>
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<td>1984-86</td>
<td>R. G. Larkins</td>
<td>D. P. Cameron</td>
<td>R. C. Baxter</td>
<td>D. M. Hurley</td>
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<td>1986-88</td>
<td>D. P. Cameron</td>
<td>R. C. Baxter</td>
<td>S. J. Judd</td>
<td>D. M. Hurley</td>
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<td>1988-90</td>
<td>R. C. Baxter</td>
<td>S. J. Judd</td>
<td>J. R. Stockigt</td>
<td>D. J. Handelsman</td>
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<td>1990-92</td>
<td>J. R. Stockigt</td>
<td>J. A. Eisman</td>
<td>G. W. Tregear</td>
<td>D. J. Handelsman</td>
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<td>1996-98</td>
<td>D. J. Topliss</td>
<td>R. J. Rodgers</td>
<td>G. P. Risbridget</td>
<td>M. S. Lewitt</td>
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<td>1998-00</td>
<td>R. J. Rodgers</td>
<td>J. D. Zajac</td>
<td>K. K. Y. Ho</td>
<td>M. S. Lewitt</td>
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<td>B. J. Waddell (May 99)</td>
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<td>2000-02</td>
<td>K. K. Y. Ho</td>
<td>B. J. Waddell</td>
<td>B. Canny</td>
<td>C. Coulter</td>
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<td>2002-03</td>
<td>B. Cannny</td>
<td>J. D. Zajac</td>
<td>R. Cuneo</td>
<td>C. Coulter</td>
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<td>2004-06</td>
<td>J. D. Zajac</td>
<td>L. Bach</td>
<td>M. McLean</td>
<td>V. Clifton</td>
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<td>2006-08</td>
<td>L. Bach</td>
<td>M. McLean</td>
<td>D. Phillips</td>
<td>V. Clifton</td>
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<td>2009-10</td>
<td>M. McLean</td>
<td>V. Clifton</td>
<td>D. Phillips</td>
<td>B. Yeap</td>
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<td>V. Clifton (Feb 10)</td>
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<td>2010-12</td>
<td>V. Clifton</td>
<td>P. Ebeling</td>
<td>T. Cole</td>
<td>W. Inder</td>
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<td>2012-14</td>
<td>P. Ebeling</td>
<td>H. Teede</td>
<td>T. Cole</td>
<td>W. Inder</td>
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<td>2016-18</td>
<td>W. Inder</td>
<td>T. Cole</td>
<td>M. Burt</td>
<td>N. Hodyl</td>
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<td>2018-20</td>
<td>T. Cole</td>
<td>B. Yeap</td>
<td>M. Burt</td>
<td>B. Henry</td>
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<td>2020-21</td>
<td>B. Yeap</td>
<td>A. McCormack</td>
<td>M. Grossmann</td>
<td>B. Henry</td>
</tr>
</tbody>
</table>

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
SPONSORS, AWARDS AND LECTURERS OF THE ENDOCRINE SOCIETY OF AUSTRALIA

ESA AWARD SPONSORS

KEITH HARRISON MEMORIAL LECTURERS

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

1965 Geoffrey Harris 1989 Hiroo Imura 2006 William Crowley
1973 Albert Renold 1990 Iain McIntyre 2007 Gerard Karsenty
1976 John Landon 1993 Eberhard Nieschlag 2010 Stafford Lightman
1979 John Shine 1996 Gregory Mundy 2013 Matthew During
1980 Ronald Swerdloff 1997 M. Geoffrey Rosenfeld 2014 Sundeeh Khosla
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
1999 Christopher K Glass 2009 Karen Miller 2018 Susan Mandel
2001 Domenico Accili 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-SRB-ANZBMS Delegate Booklet 2021  Supported by

inova pharmaceuticals
ESA MID-CAREER RESEARCH AWARD

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

2009 Rachel Davey
2010 Peter Liu
2011 Mathis Grossmann
2012 Emma Duncan
2013 Zane Andrews
2014 Kevin Pfleger
2015 Lisa Moran
2016 *Not awarded*
2017 Frances Milat
2018 Kirsty Walters
2019 Kelly Walton
2020 Mitchell Lawrence
2021 Anju Joham

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
1977 David Kennaway
1978 David Healy
1979 George Werther
1980 Rebecca Mason
1981 Yvonne Hodgson
1982 David Hurley
1983 Carolyn Scott
1984 David James
1985 Guck Ooi
1986 Marie Ranson
1987 Lora Hutchinson
1988 Vasilious Papadopoulos
1989 David Phillips
1990 Sharon Gargosky
1991 Marie-Christine Keightley & Helen Maclean
1992 Fiona Young
1993 Emma Ball
1994 Vicki Clifton
1995 Michael Downes & Sylvia Lim-Tio
1996 John Walsh
1997 Bu Yeap
1998 Julie Joyner
1999 Renea Jarred & Helena Teede
2000 Jeremy Smith
2001 Stephen Heady
2002 Patrick McManamny
2003 Sophie Chan
2004 Esme Hatchell
1990 Agnes Kovacic & Amy Au
1996 David Macintyre
1997 Marrianne Elston
2008 Sue Lau
2009 Kenneth Ho
2010 Lyndal Tacon
2011 Jun Yang
2012 Patrick Candy
2013 Kevin Lee Tao-Kwang
2014 Marianna Volpert
2015 Dilya TH Leung
2016 Ashlee Clark
2017 Patrick Thomas
2018 Laura H Porter
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
1992 Peter Stanton
1993 Janet Martin
1994 Chen Chen
1995 Timothy Crowe
1996 Jun-Ping Lui
1997 Liza O'Donnell
1998 Stephen Twigg
1999 Dan Lee
2000 Fraser Rogerson
2001 Karen Kroeger
2002 Susan Fanayan
2003 Jenny Gunton
2004 Peter Liu
2005 Simon Chu
2006 Renea Taylor
2007 Kirsten McTavish
2008 Belinda Henry
2009 Kristy Brown
2010 Zoe Hyde
2011S tefan Bagheri-Fam
2012 Priya Sumithran
2013 Jennifer Lo
2014 Anthony Bird
2015 Christian Girgis
2016 Justin Chen
2017 Jimmy Shen
2018 Sabashini Ramchand
2019 Nandini Shankara Narayana
2020 Angela Lee
2021 Adam Hagg (Basic Science) & Mark Mark Ng Tang Fui (Clinical)

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>2018</td>
<td>Warrick Inder</td>
</tr>
<tr>
<td>2019</td>
<td>Jennifer Chen</td>
</tr>
<tr>
<td>2020</td>
<td>Nandini Shankara Narayana</td>
</tr>
<tr>
<td>2021</td>
<td>Valentina Rodriguez Paris</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>2003</td>
<td>Emma Ball</td>
</tr>
<tr>
<td>2004</td>
<td>Gordon Howarth, Sophie Chan and Vincenzo Russo</td>
</tr>
<tr>
<td>2005</td>
<td>Stuart Ellem</td>
</tr>
<tr>
<td>2006</td>
<td>Kevin Pfleger and Erosa Premaratne</td>
</tr>
<tr>
<td>2007</td>
<td>Lisa-Marie Atkin, Elspeth Gold and Michael Stark</td>
</tr>
<tr>
<td>2008</td>
<td>Elf Ekinic, Andrew Siebel, Jenny Chow</td>
</tr>
<tr>
<td>2009</td>
<td>Michelle Van Sinderen, Jyotsna Pippal and Ulla Simanainen</td>
</tr>
<tr>
<td>2010</td>
<td>Wee-Ching Kong, Fredrick Steyn, Ann McCormack</td>
</tr>
<tr>
<td>2011</td>
<td>Stacey Jamieson, Kristy Brown, Kevin Knowler</td>
</tr>
<tr>
<td>2012</td>
<td>Christopher Yates, Dana Briggs, Shyuan Ngo, Sarah To</td>
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<tr>
<td>2013</td>
<td>Christian Girgis, Jenna Haverfield, Steven Yau</td>
</tr>
<tr>
<td>2014</td>
<td>Malgorzata Brzozowska, Kelly Walton</td>
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<tr>
<td>2015</td>
<td>Sally Abell, Sybil McAuley, Jaesung Peter Choi</td>
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<tr>
<td>2016</td>
<td>Aneta Stefanidis, Rajini Sreenivasan</td>
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<tr>
<td>2017</td>
<td>Dilys Leung, Sabashini Ramchand, Soulmaz Shorakae</td>
</tr>
<tr>
<td>2018</td>
<td>Jasna Aleksova, Matti Gild, Emily Meyer</td>
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<tr>
<td>2019</td>
<td>Sunita De Sousa, Hanh Nguyen, Jun Yang</td>
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### AWE / ESA AUSTRALIAN WOMEN IN ENDOCRINOLOGY (AWE) TRAVEL AWARDS

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<th>Year</th>
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<tbody>
<tr>
<td>2001</td>
<td>Karen Kroger, Elizabeth Nye</td>
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<tr>
<td>2002</td>
<td>Aylin Hanyaloglu, Kylie Hewitt</td>
</tr>
<tr>
<td>2003</td>
<td>Nicola Solomon, Carolyn Allan</td>
</tr>
<tr>
<td>2004</td>
<td>Renea Jarred, Rachel Hill</td>
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<td>2005</td>
<td>Teresa Hickey, Agnes Kovacic</td>
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<td>2006</td>
<td>Rebecca Robker, Nichola Thompson</td>
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<tr>
<td>2007</td>
<td>Sue Mei Lau, Ashwini Chand</td>
</tr>
<tr>
<td>2008</td>
<td>Johanna Barclay, Ulla Simanainen, Kathryn Backholer</td>
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<td>2009</td>
<td>Kesha Rana, Stacey Jamieson, Kavitha Iyer, Vita Birz niece</td>
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<td>2010</td>
<td>Sarah To, Liza Phillips</td>
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<td>2011</td>
<td>Jun Yang, Shirin Hussain</td>
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<td>2012</td>
<td>Lili Huang, Kara Britt</td>
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<td>2013</td>
<td>Anju Joham, Helen Barrett</td>
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<td>2014</td>
<td>Kathryn Hackman, Sarah Gastras</td>
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<tr>
<td>2015</td>
<td>Amanda Rickard, Ying Wan</td>
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<td>2016</td>
<td>Ada Cheung, Sally Abell</td>
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<td>2017</td>
<td>Moe Thurzar, Rebecca Goldstein</td>
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<td>2018</td>
<td>Sophie Lee, Matti Gild, Hanh Nguyen</td>
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<td>2019</td>
<td>Sunita De Sousa, Eleanor Thong</td>
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### 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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>2018</td>
<td>Arooj Fatima, Jinbo Hu, Udai Wijetunga</td>
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<tr>
<td>2019</td>
<td>Anuradha Jayasuriya, Smitha Rao, Udai Wijentunga</td>
</tr>
<tr>
<td>2020</td>
<td>*Not awarded</td>
</tr>
<tr>
<td>2021</td>
<td>*Not awarded</td>
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### ESA RESEARCH SEED GRANTS

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

<table>
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<tr>
<th>Year</th>
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<tr>
<td>2018</td>
<td>Mitchell Lawrence, Kirsty Walters, Jun Yang</td>
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<td>2019</td>
<td>Morton Burt, Caroline Jung, Adam Rose, Aneta Stefanidis</td>
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<tr>
<td>2020</td>
<td>Ada Cheung, Luba Sominsky</td>
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<tr>
<td>2021</td>
<td>Ann McCormack, Nicholas Russell, Varun Venkatesh, Diane Reboucet</td>
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### ESA KEN WYNNE MEMORIAL POSTDOCTORAL RESEARCH AWARD

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<td>2013</td>
<td>Lisa Moran</td>
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<td>2014</td>
<td>Kristy Brown</td>
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<td>2015</td>
<td>Jun Yang</td>
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<td>2016</td>
<td>Kirsty Walters</td>
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<td>2017</td>
<td>Frances Milat</td>
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<td>2018</td>
<td>Kelly Walton</td>
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<tr>
<td>2019</td>
<td>Ada Cheung</td>
</tr>
<tr>
<td>2020</td>
<td>*Not Awarded</td>
</tr>
<tr>
<td>2021</td>
<td>Aneta Stefanidis</td>
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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 Ada Cheung & Jun Yang
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 Alekssova
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
Prof James Brown
Prof Henry G Burger
Dr Robin A. Burston
Prof Donald P Cameron
Prof Christine Clarke
Prof Iain Clarke
Dr 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
Dr 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
Dr 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
is indicated for adults with severe GHD*1

Flexible storage†

Store at room temperature (<25ºC) for up to 21 days after first use.

Easy to use‡

Multi-dose, pre-filled pens with no mixing required.1,2

Tailored dosing§

Fine 0.025 mg increments closely tailor the daily dose to each patient.1

Flexible storage†

†Multi-dose, pre-filled pens with no mixing required.1,2

Easy to use‡

Flexible storage†

†Multi-dose, pre-filled pens with no mixing required.1,2

Tailored dosing§

§Fine 0.025 mg increments closely tailor the daily dose to each patient.1

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


PBS Information: This product is listed on the PBS as a Section 100 item. Refer to PBS Schedule for full authority information.
### SRB OFFICE BEARERS 2021

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>President</td>
<td>Moira O’Bryan</td>
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<tr>
<td>President Elect</td>
<td>Brett Nixon</td>
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<tr>
<td>Secretary</td>
<td>David Sharkey</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Jane Girling</td>
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<td>Kylie Dunning</td>
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<td>Awards &amp; Sponsorship</td>
<td>Fiona Brownfoot</td>
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<tr>
<td>Public Relations/Website</td>
<td>Kelly Walton</td>
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<tr>
<td>Communications</td>
<td>Lisa Akison</td>
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<tr>
<td>Public Officer</td>
<td>Jeremy G. Thompson</td>
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<tr>
<td>ECR Representatives</td>
<td>Dulama Richani &amp; Jessica Dunleavy</td>
</tr>
<tr>
<td>Student Representatives</td>
<td>Meaghan Griffiths &amp; Shenae Cafe</td>
</tr>
<tr>
<td>Newsletter Secretary</td>
<td>Mark Baker</td>
</tr>
<tr>
<td>Fellows &amp; Life Members and</td>
<td>Shaun Roman</td>
</tr>
<tr>
<td>Plenary Lecture Secretary</td>
<td>Geoffry De Iuliis</td>
</tr>
<tr>
<td>SRB Conference Secretary &amp; RFD Liaison</td>
<td>Simon de Graaf</td>
</tr>
<tr>
<td>Agricultural Liaison</td>
<td>Kelsey Pool</td>
</tr>
<tr>
<td>Exotic Species Liaison</td>
<td>Andrew Pask</td>
</tr>
<tr>
<td>SRB ASM POC co-chair</td>
<td>Tu’uhevaha Kaitu‘u-Lino</td>
</tr>
<tr>
<td>SRB ASM LOC Chair</td>
<td>Jane Fenelon</td>
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### ESA­SRB­ANZBMS Delegate Booklet 2021

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<tr>
<th>Year</th>
<th>Hudson Institute of Medical Research Centre for Reproductive Health “Award for Excellence” for Best MCR Poster</th>
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<td>Z Gibb, L Wu</td>
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<tr>
<th>Year</th>
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<tr>
<td>2014</td>
<td>SJ Holdsworth-Carson et al. (J Girling)</td>
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<td>2015</td>
<td>SL Wong et al. (ML McDowall)</td>
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<tr>
<td>2016</td>
<td>J Haverfield et al. (SJ Meacham)</td>
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<td>K Walters et al. (K Walters)</td>
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<td>A Winship et al. (A Winship)</td>
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<td>2019</td>
<td>A Pask, M Green et al. (A Pask)</td>
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<td>V Atashgaran (W Ingman)</td>
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<tr>
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<th>SRB TJ Robinson Award (4 Year)</th>
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<tr>
<td>2002</td>
<td>CG Grupen</td>
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<td>2006</td>
<td>KM Morton</td>
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<td>2010</td>
<td>T Leahy</td>
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<td>2016</td>
<td>T Keeley</td>
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<td>D Russell</td>
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<td>2015</td>
<td>P Western</td>
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<td>2016</td>
<td>K Walters (May), J Girling (Nov)</td>
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<tr>
<td>2017</td>
<td>C Grupen (May), K Pringle (Nov)</td>
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<tr>
<td>2018</td>
<td>N Hannan (May), S de Graaf (Nov)</td>
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<td>2019</td>
<td>A Pask (May), P Murthi (Nov)</td>
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<th>Year</th>
<th>SRB ECR Collaborative Research Travel Award</th>
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<td>2012</td>
<td>K Pringle &amp; J McGuane</td>
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<td>2013</td>
<td>L Wu &amp; WS Yuen, K Webster &amp; K Diener</td>
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<td>2014</td>
<td>D Ireland &amp; E Menkhorst, B Menzies &amp; J Schjenken</td>
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<td>2015</td>
<td>H Brown &amp; S Buckberry, L Akison &amp; J Liew</td>
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<td>2016</td>
<td>S Reegan &amp; S Mukherjee, M Pankhurst &amp; R Kelley</td>
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<td>2017</td>
<td>J Sutherland &amp; K Dunning, F Brownfoot &amp; S Delforce</td>
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<td>2018</td>
<td>A Swinbourne &amp; T Keeley</td>
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<td>2019</td>
<td>AS Care &amp; A Winship</td>
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<td>2020</td>
<td>*Not Awarded</td>
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Is Community Access a suitable choice for your Somatuline® Autogel® (lanreotide) patients?

Find out more about HSD Community Access for Somatuline® Autogel® (lanreotide)¹

In our current environment of social distancing, Community Access prescribing may offer greater convenience through increased accessibility for appropriate Somatuline® Autogel® patients.² With a Community Access prescription, patients are able to obtain their Somatuline® Autogel® from their community pharmacy², potentially avoiding hospital visits and reducing their need to travel.

Community Access Prescribing for Somatuline® Autogel®²

The only SSA in Australia, in a ready-to-use, pre-filled syringe.³,⁴

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 Access¹:

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

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.

ANZBMS OFFICE BEARERS 2021

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

PAST ANZBMS OFFICE BEARERS 1988-2021

<table>
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<tr>
<th>YEAR</th>
<th>PRESIDENT</th>
<th>VICE PRESIDENT</th>
<th>PRESIDENT ELECT</th>
<th>SECRETARY</th>
<th>TREASURER</th>
<th>COUNCILLORS</th>
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<td>T.J.Martin</td>
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<td>M.Hooper</td>
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<td>A.Need, R.Prince, J.Eisman, I.Reid, K.Ibbertson, D.Fraser, P.Sambrook, E.Seeman</td>
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<td>P.Ebeling</td>
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<td>M. Gillespie</td>
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<td>N. Fazzalari</td>
<td>R. Price</td>
<td>N. Sims, M. Bolland, C. Inderjeeth, N. Pocock, R. Mason</td>
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<td>N. Sims</td>
<td>M. Forwood</td>
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<td>P. Anderson</td>
<td>N. Pavlos</td>
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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

ESA-SRB-ANZBMS Delegate Booklet 2021
Supported by
inova
pharmaceuticals
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 Gool
2009 Nicola Lee
2010 Irene Zinonos
2011 Chaming 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 Youlten – Basic
2016 Audrey Chan
2017 Scott Youlten
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 Vrahinas
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 Bluic, 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 Bluic

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
- 2006 Julie Pasco
- 2007 Tania Winzenberg
- 2008 Paul Baldock
- 2009 Mark Bolland
- 2010 Kun Zhu
- 2011 Susannah O’Sullivan
- 2012 Emma Duncan
- 2013 Tara Brennan-Speranza
- 2014 Nicole Yu
- 2015 Joshua Lewis & Rachelle Johnson
- 2016 Michelle McDonald
- 2017 Feitong Wu
- 2018 Dawn Aitken
- 2019 Fran Milat
- 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
- 2007 Aaron McDonald
- 2008 Haotian Feng
- 2009 Ming-Kang Chang
- 2010 Tak Sum Cheng
- 2011 Kylie Alexander
- 2012 Julie Quach
- 2013 Farzin M Takyar
- 2014 Heath McGowan
- 2015 Dana Bliuc
- 2016 Paul Lee
- 2017 Thao P. Ho-Le
- 2018 Nicola Lee
- 2019 Kai Chen
- 2020 Jungai Gao

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

**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 Youlten
- 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 #1-4

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

- Results from baseline to 12 months (n=163)²
  - 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 adults³

PBS Information: Authority required. Refer to PBS Schedule for full authority information.
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 SRF EXCHANGE LECTURER

AILEEN KEATING
Iowa State University, USA
AMGEN-ANZBMS OUTSTANDING ABSTRACT AWARD FINALISTS

DANA BLIUC
Garvan Institute of Medical Research, Australia

RYAN CHAI
Garvan Institute of Medical Research, Australia

AMGEN-ANZBMS OUTSTANDING ABSTRACT AWARD FINALISTS

ALEXANDER CORR
Garvan Institute of Medical Research, Australia

ALBERT KIM
Garvan Institute of Medical Research, Australia

ALEXANDER RODRIGUEZ
Monash University, Australia

ANZBMS

AMGEN®
ESA-SRB-ANZBMS INVITED PLENARY LECTURERS

**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

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>A/Prof Dawn Aitken</td>
<td>Menzies Institute for Medical Research, University of Tasmania, Australia</td>
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<tr>
<td>Dr Lisa Akison</td>
<td>University Of Queensland, Australia</td>
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<tr>
<td>Prof Zane Andrews</td>
<td>Monash University, Australia</td>
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<td>Prof Louise Burrell</td>
<td>University of Melbourne, Australia</td>
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<tr>
<td>Dr Alison Care</td>
<td>University of Adelaide, Australia</td>
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<tr>
<td>Prof Jackie Center</td>
<td>Garvan Institute for Medical Research and St Vincent’s Hospital, Australia</td>
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<tr>
<td>Dr Audrey Chan</td>
<td>The University of Melbourne, Australia</td>
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<tr>
<td>Dr Weiwen Chen</td>
<td>St Vincent's Hospital, Australia</td>
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<td>Dr Ada Cheung</td>
<td>Austin Health, Australia</td>
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<td>Prof Roderick Clifton-Bligh</td>
<td>Royal North Shore Hospital, Australia</td>
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<td>Prof Mark Cooper</td>
<td>University of Sydney, Australia</td>
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<tr>
<td>Dr Angela Cumberland</td>
<td>RMIT University, Australia</td>
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<tr>
<td>A/Prof Rachel Davey</td>
<td>University of Melbourne, Austin Health, Australia</td>
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<td>Dr Elodie Desroziers</td>
<td>University of Otago, New Zealand</td>
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<td>Dr Damian Dowling</td>
<td>Monash University, Australia</td>
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<td>Dr Kylie Dunning</td>
<td>The University of Adelaide, Australia</td>
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<td>Dr Jane Fenelon</td>
<td>University of Melbourne, Australia</td>
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<td>Prof Josephine Forbes</td>
<td>Mater Research Institute - The University of Queensland, Australia</td>
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<td>Prof Robert Gorkin III</td>
<td>University of Wollongong, Australia</td>
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<td>Prof Mathis Grossmann</td>
<td>University of Melbourne, Australia</td>
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<tr>
<td>Prof David Handelsman</td>
<td>ANZAC Research Institute, Australia</td>
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<tr>
<td>Prof Roger Hart</td>
<td>University of Western Australia &amp; Fertility Specialists of WA, Australia</td>
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<tr>
<td>Ms Clare Headland</td>
<td>Consumer Representative, Australia</td>
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<td>Prof Alison Heather</td>
<td>University of Otago, New Zealand</td>
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<td>A/Prof Robin Hobbs</td>
<td>Hudson Institute of Medical Research, Australia</td>
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<td>A/Prof Karla Hutt</td>
<td>Monash University, Australia</td>
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<td>Prof Sandra Iuliano</td>
<td>University of Melbourne / Austin Health, Australia</td>
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<td>Dr Timothy Jenkins</td>
<td>Brigham Young University, United States</td>
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<td>Dr John Kemp</td>
<td>The University of Queensland, Australia</td>
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<td>A/Prof Grace Kong</td>
<td>Peter MacCallum Cancer Centre, Australia</td>
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<td>Prof Marlena Kruger</td>
<td>Massey University, New Zealand</td>
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<td>Dr Julia Kuliwaba</td>
<td>The University of Adelaide, Australia</td>
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<td>Prof Itamar Levinger</td>
<td>Victoria University, Australia</td>
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<td>Prof Kate Loveland</td>
<td>Monash University and Hudson Institute for Medical Research, Australia</td>
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<td>Prof Louise Maple-Brown</td>
<td>Menzies School of Health Research, Australia</td>
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<tr>
<td>Dr Mariana Media Sanchez</td>
<td>Leibniz Institute for Solid State and Materials Research, Germany</td>
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<td>A/Prof Clare Minahan</td>
<td>Griffith University, Australia</td>
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<td>Prof Karen Moritz</td>
<td>University of Queensland, Australia</td>
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<td>Prof John Newnham</td>
<td>University of Western Australia, Australia</td>
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<td>Dr Michele O’Connell</td>
<td>The Royal Children’s Hospital Melbourne, Australia</td>
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<td>Dr Emerson Osterberg</td>
<td>Healthy Minds, Happy Kids, Australia</td>
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<tr>
<td>A/Prof Nathan Pavlos</td>
<td>University of Western Australia, Australia</td>
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<td>Prof Craig Pennell</td>
<td>University of Newcastle, Australia</td>
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<td>Prof Tony Perkins</td>
<td>Griffith University, Australia</td>
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<tr>
<td>Dr Lisa Philp</td>
<td>Australian Prostate Cancer Research Centre, Australia</td>
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<td>Dr Taylor Pini</td>
<td>The University of Queensland, Australia</td>
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<td>A/Prof Kirsty Pringle</td>
<td>University of Newcastle, Australia</td>
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<tr>
<td>Dr Dulama Richani</td>
<td>UNSW Sydney, Australia</td>
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</table>
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

A/Prof Paul Waters  
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, Australia

Dr Jun Yang  
Hudson Institute of Medical Research, Australia

Prof Bu Yeap  
University of Western Australia, Australia
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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).\(^1\) CRYSVITA® is indicated for the treatment of XLH in adults, adolescents and children 1 year of age or older.\(^1\)

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Ref: \(^1\) Australian Product Information for Crysvita® (burosumab) approved 10 September 2021.
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ABBREVIATIONS: CV, cardiovascular; GLP-1 RA, Glucagon-like peptide-1 receptor agonist; PBS, Pharmaceutical Benefits Scheme; T2D, type 2 diabetes.


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SUNDAY 21ST 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)
Fibrodyplasia 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)
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. Halloway-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](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](https://spatial.chat/s/esasrbanzbms2021)

*The conference acknowledges the support of:*

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†Above and beyond glycaemic control1,2^
MONDAY 22ND NOVEMBER 2021

ANZBMS Roger Melick Young Investigator Session
8:30AM - 10:15AM

Chairs: Michelle McDonald & Joshua Lewis

Stream B

8:30 AM  Shoichiro Tani (Center for Disease Biology and Integrative Medicine, The University of Tokyo, Tokyo, Japan)
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)
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)
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

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  Stream C
Chair: Ray Rodgers

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  Stream A
Chairs: Shane Hamblin & Angela Lee

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

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
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)
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)
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)
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
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
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. Timoshank, 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. Miszkiewicz, D. Komla-Ebri, S. Guilefoyle, M. Dock, A. Lawton, R. Lindsay, A. Adoum, D. Bassett, G.R. Williams, K. Iketami, 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. Grothos
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)*
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. Ruitenberg, 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)*
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)*
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
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)
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

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**

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**SRB Hudson Institute ECR & MCR Poster Finalist Session**  
12:45PM - 1:15PM  
Chair: Patrick Western

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)*  
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. Billscoe, 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  

**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:*

**Novartis**
ANZBMS Outstanding Orals
1:45PM - 3:05PM
Chairs: Paul Anderson & Amy Harding

1:45 PM  Ryan C Chai (Bone Biology, Garvan Institute of Medical Research, Sydney, NSW, Australia)
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)
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
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
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
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)
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)
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, I. 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
Chairs: Dulama Richani, Sarah Hosking & Emily Brooks

3:20 PM Helena Teede (Monash Health/Monash University, Clayton, Vic, Australia)
Coproduction 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

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

https://spatial.chat/s/esasrbanzbms2021

The conference acknowledges the support of:

ESA Paul Lee Best Abstract Award Presentation
4:30PM - 4:45PM
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)  
BAM15: an innovative therapeutic approach to manage PCOS metabolic features associated with PCOS? abs# 92

ESA Mid-Career Award Lecture
4:45PM - 5:05PM
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

ESA Senior Plenary Lecture
5:05PM - 5:35PM
Chairs: Bu Yeap & Mathis Grossmann

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

ESA Harrison Plenary Lecture
5:35PM - 6:30PM
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
SRB Symposium - Lessons From Non-Model Species
4:30PM - 6:30PM
Chairs: Simon de Graaf & Zamira Gibb

Stream C

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

Stream D

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)  
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 1β-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)  
6:30 pm – 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:*  
[Society for Reproductive Biology](https://www.srb.org/about-support)
TUESDAY 23RD 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)
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)  
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  

Chair: 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)
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)
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)
PRC2 establishes H3K27me3 at development 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)*
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  Spatial Chat
Chairs: Meaghan Griffiths & Shenae Cafe
https://spatial.chat/s/esarsranzbms2021

**Science at Speed**
12:30PM - 1:30PM  Spatial Chat
https://spatial.chat/s/esarsranzbms2021

*The conference acknowledges the support of:*

**ESA Meet the Expert - Basic Science**
12:35PM - 1:05PM  Stream C
Chairs: Luc Furic & Lisa Philp

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

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.
4. Share the ‘Top-Five’ recommendations with Choosing Wisely and disseminate widely to healthcare professionals.
5. Implement the Evolve recommendations, which is led by physicians.
6. Review ‘Top-Five’ recommendations to ensure they remain relevant.

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

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

www.evolve.edu.au #RACPEvolve
ESA Bryan Hudson Clinical Endocrinology Award
1:10PM - 3:30PM
Chairs: Bu Yeap & Ada Cheung

Stream A

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. Gild, 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)
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
Chairs: Peter Ebeling & Kylie Alexander

Stream B

1:30 PM  Nithin Kolanu (Garvan Institute of Medical Research, Sydney, NSW)
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)*
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)*
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)*
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*

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**The conference acknowledges the support of:**

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**ANZBMS Christopher and Margie Nordin Young Investigator e-Poster Award Finalists - Virtual Chat**
2:18PM - 3:15PM  Spatial Chat

https://spatial.chat/s/esasrbanzbms2021

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**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)*
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)*


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:

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**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)*


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_

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**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 11betahydroxysteroid 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)  
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  
Stream B  
Chairs: Mark Forwood & Natalie Butterfield

3:30 PM Narelle E McGregor (St Vincent's Institute, Fitzroy, VIC, Australia)  
B.A. Ryan, B.J. Kirby, J.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 D3 (calcitriol) abs# 167

3:42 PM Emma K Fletcher (The Garvan Institute of Medical Research, Sydney, New South Wales, Australia)  
O.P. Skinner, J. Jurczyluk, 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)*  
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**  
5:00 PM - 5:30 PM  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**  
4:00 PM - 4:20 PM  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**  
4:20 PM - 4:40 PM  Stream A  
Chairs: Ann McCormack & Diana Learoyd

4:20 PM  **Adam Hagg** *(Baker Heart and Diabetes Institute, Melbourne, Australia)*  
Perturbed BMP signalling and denervation promote muscle wasting in cancer cachexia *abs# 176*

*The conference acknowledges the support of:*

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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)
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 Iuliis

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. Samarajewa, S. Paule, Y. Li, H. Van de Velde, M. Hull, B. Vollenhoven, L. Rombauds, 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 Women's Hospital, Parkville, VIC, Australia)*
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  
ANZBMS members only

Login Link: [https://us02web.zoom.us/j/87197758819?pwd=bVJNNEhtTOJ0cGZRM1B3ZXFZRDJpZz09](https://us02web.zoom.us/j/87197758819?pwd=bVJNNEhtTOJ0cGZRM1B3ZXFZRDJpZz09)
Meeting ID: 871 9775 8819
Passcode: 499935

**ESA AGM**
6:00PM - 7:00PM  
ESA members only

Login Link: [https://us02web.zoom.us/j/86482503880?pwd=em5CRjJLT25pTUJiY2dod2NiYUNQZT09](https://us02web.zoom.us/j/86482503880?pwd=em5CRjJLT25pTUJiY2dod2NiYUNQZT09)
Meeting ID: 864 8250 3880
Passcode: 360797
WEDNESDAY 24TH 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. Carliano, D. Brown, R. Mello, 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)  
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-Perris*  
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:
SRB Orals - Male Reproductive Tract
8:30AM - 10:00AM
Chairs: Mark Hedger & Dagmar Wilhelm

8:30 AM
Kelly Walton (Monash University, Clayton, VIC, Australia)
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)
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
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
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)
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** *(University 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)*  
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  
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  
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  
Chairs: Timothy Cole & Moe Thuzar

1:30 PM  Angela Cumberland *(RMIT University, Bundoora, VIC, Australia)*  
Adrenarche - 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 Phaeochromocytoma and Paragangliomas (PPGL)  *abs# 230*

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

**ANZBMS National invited speaker - Julia Kuliwaba**  
1:30PM - 2:00PM  
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*
ANZBMS National invited speaker - Dawn Aitken
2:00PM - 2:30PM
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
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
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)
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. Reboucet, 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  **Yasmin 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)*

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)*

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
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)*
Motion is essential to maintain the synovial condition and joint homeostasis *abs# 249*

ANZBMS Awards & Closing Ceremony
4:30PM - 5:00PM
Chairs: Itamar Levinger & Natalie Sims

ESA Hot Topics COVID19 Symposium
3:45PM - 5:45PM
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: [Pfizer](#)

SRB Symposium - Novel Technologies in Reproduction
4:00PM - 6:00PM
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
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’Brien, J.A. Veltman  
Identifying monogenic causes of male infertility  abs# 258

4:15 PM  
Brendan J Houston (Bio21 Institute, Parkville, VIC, Australia)  
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)  
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
Chairs: Aneta Stefanidis & Bu Yeap

SRB Closing Ceremony
6:00PM - 6:10PM
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, Melbrouen, 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 β: 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. Eguiar, 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. Märtson, S. Kõks
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)
Targetting 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 PPARγ 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)
‘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)
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. Balcerek, 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. Fourlanos, 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. Fourlanos, C. Chiang, C. Yates

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

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

M. Felder, S. Fourlanos, 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. Sztl-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. 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. Weilala, L. Vijeyakumar, A. Gunawardena, G. Abeyesinghe, 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. Balcerek, 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. Katowicz
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. Sztl-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  
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Ryan Endall (Department of Endocrinology, Monash Health, Melbourne)  
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Xian Chen (Department of Obstetrics and Gynaecology, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong SAR, China)  
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B. Nixon, D. Skerrett-Byrne, T. Lord
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Wed WS Salah (Centre for Developmental and Regenerative Medicine, Kolling Institute, University of Sydney, NSW, Australia, St Leonards, NSW, Australia)
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Sarah C Moody (Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia)
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Gerard A Tarulli (School of BioSciences, The University of Melbourne, Parkville, Victoria, Australia)
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Darren Chow (Robinson Research Institute, Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia)
C. Tan, K. Dholakia, K. Dunning
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Emily R Frost (Sex Development Lab, Hudson Institute for Medical Research, Oakleigh East, VIC, Australia)
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Maria B Marinova (School of Medical Sciences, UNSW Sydney, Sydney, New South Wales, Australia)
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D. ZARQAOUI, D. LOUANJLI  
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Lucy A Bartho (Griffith University, Southport, QLD, Australia)  
J.J. Fisher, J.S. Cuffe, T.V. Perkins  
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Georgia S Clarke (Nutrition, Diabetes & Gut Health, Lifelong Health Theme, South Australian Health and Medical Research Institute, Adelaide, South Australia, Australia)  
S.R. Ladyman, R.L. Young, K.L. Gattford, A.J. Page  
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Bianca R Fato (Therapeutics Discovery and Vascular Function Group, Heidelberg, Victoria, Australia)  
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Sahar Masoumeh Ghorbanpour (School of Life Science, University of Technology Sydney, Sydney, NSW, Australia)  
C. Richards  
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Ella S Green (Robinson Research Institute, University of Adelaide, Adelaide, SA, Australia)  
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Tanja Jankovic-Karasoulos (Flinders University, Bedford Park, ACT, Australia)  
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Evangeline A Lovell (Obstetrics and Gynecology, Robinson Research Institute and Adelaide Medical School, University of Adelaide, Adelaide, South Australia, Australia)  
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Padma Murthi (Maternal Fetal Medicine, Pregnancy Research Centre, Royal Women’s Hospital, Parkville, Victoria, Australia)  
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Kerry Richard (Pathology Queensland, Queensland Health, Herston, Queensland, Australia) M.J. Young, D.S. Mcleod, M.C. d’Emden
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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
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Rheannon Blücher (Department of Molecular and Translational Science, Monash University, Clayton, Victoria 3168, Australia ) R. Lim, E. Jarred, M. Blewitt, M. Ritchie, P. Western
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Fiona KM Cheung (School of Biomedical Sciences, Faculty of Medicine, The University of Queensland, St Lucia, QLD, Australia) C. Spiller, J. Bowles
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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
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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
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Raveena Gajanayaka (The University of Western Australia, Perth, WA, Australia)
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Teruhito Ishihara (School of BioSciences, The University of Melbourne, Melbourne, VIC, Australia)
O.W. Griffith, S. Suzuki, M.B. Renfree
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Tayler C Kent (Murdoch University, Perth, WESTERN AUSTRALIA, Australia)
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Denis Korneev (Monash University, Monash University (Clayton), VICTORIA, Australia)
D.J. Merriner, A. de Marco, M.K. O’Bryan
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Nicole McPherson (Freemasons Center for Male Health and Wellbeing, Adelaide, SA, Australia)
H. Shehadeh, T. Fullston
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Ashlee J Medica (School of Environmental and Life Sciences, Callaghan, NSW, Australia)
Z. Gibb, a.r. Sheridan, N. Harrison, R.J. Aitken
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Diana Micati (Anatomy and Developmental Biology, Monash University, Clayton, VIC, Australia)
S. Archer, G. Hime, K. Loveland, H. Abud
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Benedict Nathaniel (Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VIC, Australia)
P. Whitey, Y. Miyamoto, K. Loveland
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Cottrell T Tamessar (Priority Research Centre for Reproductive Science and School of Environmental and Life Sciences, The University of Newcastle, Newcastle, NSW, Australia)
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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
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Dagmar Wilhelm (University of Melbourne, Melbourne)
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Hanna H Allerkamp (Auckland Bioengineering Institute, University of Auckland, Auckland, New Zealand)
A.R. Clark, J.L. James
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Natasha de Alwis (Mercy Perinatal, Mercy Hospital for Women, Melbourne, Victoria, Australia)
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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
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Johanna K Farley (Hudson Institute of Medical Research, Melbourne)
J. Piskopos, C.E. Gargett, S. Gurung, T. Tapmeier
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Tina Gorsek Sparovec (Medical University of Graz, Graz, AUSTRIA, Austria)
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Kathryn H Gurner (School of Biosciences, University of Melbourne, Parkville, VIC, Australia)
J. Evans, J. Hutchison, A.J. Harvey, D.K. Gardner
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Shanti Gurung (Centre for Reproductive Health/Hudson Institute of Medical Research/Monash University, Clayton, VIC, Australia)
D. Greening, A. Rai, Q. Poh, J. Evans, L. Salamonsen
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Sadaf Kalam (Faculty of Health and Medicine, University of Sydney, Sydney, NSW, Australia)
S. Dowland, C. Murphy, L. Lindsay
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Legqian Lin (Shenzhen Key Laboratory of Fertility Regulation, Department of Obstetrics and Gynecology, The University of Hong Kong-Shenzhen Hospital, Shenzhen)
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Hanzhang Ruan (Department of Obstetrics and Gynaecology, University of Hong Kong, Hong Kong SAR, People’s Republic of China)
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Lachlan Schofield (Hunter Medical Research Institute (HMRI), Newcastle, NSW, Australia)
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Manizha Shekibi (School of Health and Biomedical Sciences, RMIT University, Bundoora, VIC, Australia)
S. Heng, Y. Wang, Y. Li, G. Nie
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Cherry Sun (The University of Auckland, Auckland, AUCLAND, New Zealand)
K.M. Groom, C. Oyston, L.W. Chamley, J.L. James
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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
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Wentong Xu (The Ritchie Centre and Centre for Reproductive Health, Hudson Institute of Medical Research, Clayton, VICTORIA, Australia)
C.E. Gargett, C.E. Filby
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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.)
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
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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)
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
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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

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ANZBMS E-POSTER LISTING

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Charles Inderjeeth (North Metropolitan Health and University of Western Australia, Nedlands, WA, Australia)

W. Harrod

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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

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Friederike Thomasius (Frankfurter Hormon und Osteoporosezentrum, , Frankfurt, Germany)

S. Palacios, A. Alam, M. Boolell, R.L. Duckham, F. Vekeman, G. Gauthier

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A.L. Stuart, J.A. Pasco, J.M. Hodge, R. Samarasinghe, V. Chandrasekaran, I. Zulman, M. Berk

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Jeffrey Hassall (Amgen Australia, Sydney, NSW, Australia)

B. Johnson, M. McClung, S. Silverman, S.R. Gandra, J. Timoshanko, B. Stollenwerk

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Yaser Peymanfar (UniSA: Clinical and Health Sciences, University of South Australia, Adelaide, SA, Australia)

Y. Su, C. Xian

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Natalie C Butterfield (Imperial College, London, United Kingdom)

J.J. Miszkiewicz, D. Komla-Ebri, S. Guilefoyle, M. Dack, A. Lawton, R. Lindsay, A. Adoum, D. Basset, G.R. Williams, K. Ikegami, T. Yoshimura

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Esther Camp (School of Biomedicine, University of Adelaide, Adelaide, South Australia, Australia)

P.J. Anderson, S. Gronthos

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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  
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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  
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Nithin Kolanu (Garvan Institute of Medical Research, Sydney, NSW)  
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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  
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Ahmed Al Saedi (Department of Medicine – Western Health, The University of Melbourne, St Albans, VIC, Australia)  
A. Hayes, R. Kremer, G.G. Duque  
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Ali Ghasem-Zadeh (Endocrinology and Medicine, Austin Health, the University of Melbourne, Heidelberg, VIC, Australia)  
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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  
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Kara B Anderson (Deakin University, Geelong, VIC, Australia)  
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Amy B P Ribet (School of Biomedical Science, UWA, CRAWLEY, WA, Australia)  
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Ye Cao (Molecular Medicine and Pathology, University of Auckland, Auckland)  
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**Babatunde A Ayodele** *(University of Melbourne, Parkville, VIC, Australia)*
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)*
Carbamazepine does not rescue the osteogenesis imperfecta bone phenotype in *Col1a2*+/-G610C mice but increases fragility in healthy bones *abs# 702*

**Shoni Bruell** *(Department of Nephrology, Royal Melbourne Hospital, Parkville, Vic, Australia)*
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
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Alexandra K O'Donohue (Bioengineering & Molecular Medicine Laboratory, The Children’s Hospital at Westmead and the Westmead Institute for Medical Research, Sydney, NSW, Australia)
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Olga Panagiotopoulou (Department of Anatomy and Developmental Biology, Monash University, Clayton, Victoria, Australia)
H. Mehari Abraha, P. Haravu, J. Shang, J. Iriarte Diaz, R.R. Reid, C.F. Ross
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Selwin Samuel (Mater Research Institute - UQ, Woolloomooloo, Brisbane, QLD, Australia)
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Jemima E. Schadow (Department of Biomedical Engineering, The University of Melbourne, Parkville, Australia)
M.O. Silva, P. Durongbhan, K.S. Stok
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Nicholas Smith (Precision Medicine Theme, South Australian Health and Medical Research Institute, Adelaide, South Australia, Australia)
S. Gronthos, D. Cakouros
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Tomoka Takao (Department of Regenerative Science, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)
M. Nakamura, D. Yamada, T. Takarada
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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)
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
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Zheng Wang (RIKEN, Minato-ku, TOKYO, Japan)
H. Imai, S. Ikegawa
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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)
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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
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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
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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
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Lucy Collins (Department of Diabetes and Endocrinology, Royal Melbourne Hospital, Melbourne, Victoria, Australia)
R.D. Barmanray, C. Chiang, C. Yates, S. Fourlanos
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)
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