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'Lost But Not Forgotten' Artwork Created By: Jared.L.Coolwell 2022 ©

Style: Modern Australian Aboriginal Art.

Firstly I would like to acknowledge the Yugambeh people and the Kombumerri tribe whose land we reside on and all past, present and future elders. Gowanda Many years before, their world would change, there was a man named Gowanda, amongst the tribe who was famous for his great training of dogs, that would help the men hunt wallaby, kangaroo, emu and other animals. When it was his time to pass, due to his great teaching ways, he was turned in to a dolphin. Then one day many years later a boy from the tribe saw a dolphin swimming amongst the waves, he knew it was Gowanda so he fun to tell the rest of the tribe. They knew it must be him as he had a white top fin so he could be recognised by them. He had become a dolphin to teach the younger dolphins lore for helping their land brothers and sisters. On Quandamooka country it is taught that when you slap your spear or sticks on the water, dolphins when available, will drive the fish into the spears of men or the nets of women and children. Then in return the tribe would give thanks and share. This is the lore Gowanda teaches the younger dolphins even to this day. He waits to hear again the songs of his tribe, the slaps of the spear and sticks, calling to him for his help once more from his land brothers and sisters. This painting is representation of recorded significant sites around the convention centre. Campsite with the fire in the centre and multi-colour U shapes represent us at the convention centre and the many different people you will find here. The site with a red line and Mirrabooka (southern cross) is a recorded burial site. The area is called Kombumerri Park and is the closet site to the convention centre. It was recorded as a site after 1965 the Broadbeach residents there found human bones appearing in soil sold by a local landscaper excavating the Broadbeach wetlands. Further excavation of the park done by Laila Haglund, who had testing done, dated the bones to be 1,200 years old. When the local elders were asked what they wished to be done with the bones they asked if they could be placed back from where they come from and are now located unmarked in the park placed back as close to their original sites that permits. Thanks to Laila Haglund and her recordings. The site with yellow line was recorded as a large gathering area for the local tribes. Every so often other tribes would come from great distances and visit here for feasting, dancing, sharing news, celebration of marriages, etc. This was also supported by a large mitten that's was recorded, found in the early 1900's when John Elliot built a sugar mill on the location which was called the Bundall Sugar Mill and is now a historical museum. The campsite with with U shapes with white feet was recorded in the 1900's, by early settlers of the area, as where the local tribe would do dancing. The campsite with with U shapes, white feet and a campfire is Jebbribillum Bora Ring. This was a place for initiation, ceremony, dancing and feasting. The Bora Ring is still there fenced off with a war memorial dedicate to serving indigenous men and women from 1914 to 1991. The dolphin is Gowanda, who even to this day, watches over all who reside on his country. They may be gone and some maybe lost but we will never forget them. 'Lost but not forgotten'

We would like to take a moment to say thank you all for inviting us back. We love sharing indigenous art, culture and knowledge with you all. Jared and Letitia.

Please take note spelling of names may vary due to dialect or the use of the English alphabet. Based on the Yugambeh language.

Written By Jared Coolwell (artist) and Letitia Lennon (manager) Co-Owners of J.L.Coolwell & L.M.Lennon Est.2016 ©2022
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WELCOME FROM THE ANZBMS – MEPSA – ANZORS COMMITTEE

The Program and Local Organising Committee Chairs, and the Presidents of the Australian and New Zealand Bone and Mineral Society (ANZBMS), the Molecular & Experimental Pathology Society of Australasia (MEPSA) and the Australian & New Zealand Orthopaedic Research Society (ANZORS) extend the warmest welcome to you at our first ever combined Annual Scientific Meeting on the stunning Gold Coast, Australia, from the 1st to the 4th of August, 2022.

Whether you are a young investigator, clinician, basic scientist, allied health professional, or industry representative, there is much for you at this year's meeting.

The Program Organising Committee, co-chaired by Ayse Zengin, Peter Simm and Hong Zhou, have put together an exciting program of cutting-edge science in musculoskeletal health and tissue pathology that will appeal to both clinician and basic scientists.

Key session themes include:

- Comparative Biology
- Infection, Immunity and Inflammation
- Models of Human Disease
- Photobiology
- Insights from allied health and consumer groups
- Therapeutics
- Lifecourse managements of musculoskeletal health
- Musculoskeletal and Regenerative Biology
- Biomechanics
- Musculoskeletal Imaging
- Innovation in Bioengineering and Orthopaedics
- Translational Orthopaedics
- Vitamin D

Come along and pick a team at the Therapeutics versus Exercise debate – sure to spark some fireworks.

On the social, networking and career development front, we'll have the traditional Bones and Brews networking event, a speed networking session, a Clinical Cases in Metabolic Bone Diseases Seminar dinner, and a career development lunch 'Building Resilience in STEM'. Along with the always popular Welcome Function with plenary posters, the Conference Gala Dinner is always a meeting highlight where you can catch up with friends and colleagues, celebrate award recipients, and dance the night away to a live band.

We can't wait to re-establish face-to-face connections, networks and alliances for scientific discourse – the true purpose, indeed *definition*, of a scientific meeting.

Welcome all.

Belinda Beck

LOC Chair

SOCIETY SECRETARIATS

ANZBMS

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Conference Secretariat – ASN Events

Jim Fawcett
Jim.f@asnevents.net.au
www.asn.events

ANZBMS – MEPSA – ANZORS 2022 COMMITTEES

LOCAL ORGANISING COMMITTEE

Dr Kylie Alexander

Mater Research
ANZBMS

Dr Melissa Cantley

University of Adelaide & SAHMRI
ANZBMS

Dr Peter Pivonka

*Queensland University of
Technology*
ANZBMS

Dr Martina Barzan

Griffith University
ANZORS

Miss Kaitlyn Flynn

University of Queensland
ANZBMS

A/Prof James Wells

The University of Queensland
MEPSA

Prof Belinda Beck (Chair)

Griffith University
ANZBMS

Dr Amy Harding

Griffith University
ANZBMS

PROGRAM ORGANISING COMMITTEE

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Griffith University
ANZORS POC Co-Chair

Dr Grant Parnell

University of Sydney
MEPSA POC Co-Chair

A/Prof Peter Simm

Royal Children's Hospital Melbourne
ANZBMS POC Co-Chair

Prof Scott Byrne

The University of Sydney
MEPSA POC Co-Chair

A/Prof Nathan Pavlos

University of Western Australia
ANZORS POC

Dr Ayse Zengin

Monash University Australia
ANZBMS POC Co-Chair

Dr Katie Dixon

University of Sydney
MEPSA POC CO-Chair

A/Prof Egon Perilli

Flinders University Adelaide
ANZORS POC Co-Chair

Prof Hong Zhou

University of Sydney
ANZBMS POC Co Chair

Prof. Gustavo Duque

University of Melbourne
ANZBMS Meetings Chair

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University of Adelaide & SAHMRI
ANZBMS

Dr Jiao Jiao Li

University of Technology Sydney
ANZORS & ANZBMS

EARLY CAREER COMMITTEE MEMBERS

Dr Kara Anderson

Deakin University
ANZBMS

Dr Emma Buckels

University of Auckland
ANZBMS

Dr Bridie Mulholland

University of Wollongong
ANZBMS

Dr Niloufar Ansari

*Monash Institute of
Pharmaceutical Sciences*
ANZBMS

Dr Jack Dalla Via

Edith Cowan University
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Dr Pamela Rufus-Membere

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*University of Michigan &
University of Queensland*
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Dr John Kemp

University of Queensland
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Dr Hanh Nguyen

Monash Health & Western Health
ANZBMS

Dr Albert Kim

Garvan Institute of Medical Research
ANZBMS

ANZBMS OFFICE BEARERS 2022

ANZBMS President
 ANZBMS President Elect
 ANZBMS Honorary Secretary
 ANZBMS Treasurer
 ANZBMS Past President

Prof Mark Forwood
 Prof Gustavo Duque
 Prof Mark Cooper
 A/Prof Rachel Davey
 Prof Natalie Sims

ANZBMS Councillors
 Dr Melissa Cantley, A/Prof Cherie Chiang,
 A/Prof Dawn Coates, A/Prof Josh Lewis & Dr Michelle
 McDonald

PAST ANZBMS OFFICE BEARERS 1988-2022

YEAR	PRESIDENT	VICE PRESIDENT PRESIDENT ELECT	SECRETARY	TREASURER	COUNCILLORS
1990 - Steering Group	T.J.Martin		M.Hooper		A.Need, R.Prince, J.Eisman, I.Reid, K.Ibbertson, D.Fraser, P.Sambrook, E.Seeman
1991-93 - Inaugural Council	T.J.Martin		M.Hooper	M.Hooper	J.Eisman, A.Goulding, D.Perry-Keen, J.Wark, A.Need, N.Kent
1993-95	J.Eisman	I.Reid	N.Kent	J.Wark	P.Sambrook, A.Need, R.Prince, D.Perry-Keene, E.Seeman
1995-97	I.Reid	N.Kent	J.Moseley	P.Ebeling	P.Sambrook, A.Need, R.Prince, D.Perry-Keene
1997-99	N.Kent	P.Ebeling	J.Moseley	P.Ebeling	R.Prince, I.Reid, M.Hooper, H.Morris, M.Forwood
1999-01	P.Ebeling	M.Hooper	J.Cornish	M.Forwood	J.Moseley, H.Morris, E.Mackie, M.Zheng
2001-03	M.Hooper	E.Seeman	J.Cornish	M.Forwood	R.Mason, R.Price, D.Findlay, G.Nicholson
2003-05	E.Seeman	J.Cornish	D.Findlay	M.Forwood	R.Mason, R.Price, G.Nicholson, P.Sambrook
2005-07	J. Cornish	P. Sambrook	D. Findlay	R. Price	R. Mason, G. Nicholson, P. Nash, M. Gillespie
2007-09	P. Sambrook	R. Mason	M. Gillespie	R. Price	P. Nash, N. Fazzalari, M. Kotowicz, T. Cundy
2009-11	R. Mason	M. Gillespie	N. Fazzalari	R. Price	P. Sambrook, N. Sims, M. Seibel, G. Thomas, N. Gilchrist
2011-13	M.Gillespie	M. Seibel	G. Atkins	G. Thomas	N. Sims, M. Bolland, C. Inderjeeth, N. Pocock, R. Mason
2013-15	M. Seibel	E. Duncan	G. Atkins	G. Thomas	N. Sims, M. Gillespie, N. Pocock, N. Pavlos, E. Dennison
2015 - 17	E. Duncan	P. Croucher	P. Anderson	N. Pavlos	R. Daley, R Buchbinder, N. Pocock, A. Pettit, E. Dennison
2017 – 19	P.Croucher	N.Sims	P.Anderson	N.Pavlos	A.Pettit, R.Daly, M.Cooper, J.Cornish, M.Forwood, E.Duncan
2019 – 21	N. Sims	M. Forwood	P. Anderson	N. Pavlos	A. Pettit, R. Davey, M. Cooper, J. Cornish, G. Duque, P. Croucher
2021 - 22	M. Forwood	G. Duque	M. Cooper	R. Davey	M. Cantley, C. Chiang, D. Coates, J. Lewis, M. McDonald

SPONSORS & AWARDS OF THE AUSTRALIAN & NEW ZEALAND BONE & MINERAL SOCIETY

ANZBMS AWARD SPONSOR



ROGER MELICK YOUNG INVESTIGATOR AWARD



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

1996	Vicky Kartsogiannis	2005	James Doecke	2014	Hua Ying
1997	Linda Crofts	2006	Yosuke Kawasaki		Irina Kulina
1998	Janelle Barry	2007	Stella Foley	2015	Niloufar Ansari
1999	Liza-Jane Raggatt		Garry Williams	2016	Christina Vrahnas
2000	Sandra Iuliano-Burns	2008	Jonathan Gooi	2017	Mahmoud Bakr
	Nathan Pavlos	2009	Nicola Lee	2018	Jun Li
2001	David Good	2010	Irene Zinonos	2019	Amy Harding
2002	Kun Zhu	2011	Chiaming Fan	2020	James Smith
2003	Agatha Labrinidis	2012	Farzin Takyar	2021	Ruby Oberin
	Xiaofang Wang		Audrey Chan		
2004	Susan Allison	2013	Asiri Wijenayaka		
	Kirk Ho Man Yip				

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	2005	Mark Bolland	2013	Yu Wen Su
	Hidenori Murata		Catherine Wang	2014	Masato Koike
1998	Marianne Holzherr	2006	Andrew Hattam	2015	Dzenita Muratovic –
1999	Tanya Uebergang		Estabelle Ang		Clinical,
2000	Josef Kaplan	2007	Taksum Cheng		Scott Youlten – Basic
2001	Rebecca Jackson	2008	Hasnawati Saleh	2016	Audrey Chan
2002	Nathan Pavlos	2009	Ee-Cheng Khor	2017	Scott Youlten
2003	Nicole Walsh	2010	Kylie Alexander	2018	Alexander Rodriguez
	Rouha Granfar	2011	Shek Man Chim	2019	Amy Ribet
2004	Laura Gregory	2012	Alvin Ng	2020	Ruby Oberin
	Mark Bolland		Marie-Luise Wille	2021	Amy Ribet

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	2008	Roger Zebaze	2015	Christina Vrahnas
2003	Vicky Kartsogiannis	2009	Bich Tran	2016	Audrey Chan
2004	Kerrie Sanders	2010	Garry Williams	2017	Alexander Rodriguez
2005	Susan Allison	2011	Julie Quach	2018	Thao Ho-Le
2006	Mark Forwood	2012	Ashika Chhana	2019	Sabashini Ramchand
2007	Brya Matthews	2013	Yohann Bala	2020	*Not Awarded
		2014	Michelle McDonald	2021	*Not Awarded

ANZBMS BONE HEALTH FOUNDATION GRANT

2021 Michelle McDonald, Fran Milat

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		Brennan, Jasreen Kular,		Natalie Hyde, Michelle McDonald
2004	Roger Zebaze		Markus Seibel		
2004	Christine Rodda	2011	Ian Reid, Asiri Wijenayaka	2017	Victoria D Leitch, Emma M Wade, Michelle M McDonald, Ego Seeman
2005	Markus Seibel, Julian Quinn	2012	Ego Seeman, Rachelle Johnson		
2006	Yosuke Kawasaki, Julie Kuliwaba, Stella Foley, Dana Bliuc, Jonathan Gooi, Hugh Zhang	2013	Peter Ebeling, Rossana Nogueira, Simon Junankar, Narelle McGregor, Jinwen Tu	2018	Ian Reid, Nathan Pavlos
2007	Colin Dunstan, Richard Prince, Maria Chiu, Natalie Sims, Paul Baldock, Ian Parkinson, Hong Zhou	2014	Allison Pettit, Paul Baldock, Jinwen Tu, Roger Zebaze, Kirtan Gandaz	2019	Kai Chen, Robin Daly
2008	Robert Kalak, Andrew Grey	2015	Michelle McDonald, Allison Pettit, Audrey Chan, Le Phong Thao Ho, Ayano Nakayama	2020	Sandra Iuliano, Peter Ebeling, Audrey Chan, Victoria Leitch, Tsuyoshi Isojima
2009	Vicky Kartsogiannis, Nguyen Nguyen	2016	Nicola Lee, Steven Watson, Emma Walker	2021	Dana Bliuc, Ryan Chai, Alexander Corr, Albert Kim, Alexander Rodriguez
2010	Markus Seibel, Emma Walker, Iris Wong, Sarah			2022	Charles Inderjeeth, Michael J Rogers, Minghao Zheng, Brya Matthews, John Eisman

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	2015	Hanh Nguyen	2018	Jasna Aleksova
2013	Syndia Lazarus	2016	Thach Tran	2019	Alexander Rodriguez
2014	Masakazu Kogawa	2017	Weiwen Chen		

ANZBMS KAYE IBBERTSON AWARD FOR BONE AND MINERAL MEDICINE

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	2014	Nicole Yu
2006	Julie Pasco	2015	Joshua Lewis
2007	Tania Winzenberg		Rachelle Johnson
2008	Paul Baldock	2016	Michelle McDonald
2009	Mark Bolland	2017	Feitong Wu
2010	Kun Zhu	2018	Dawn Aitken
2011	Susannah O'Sullivan	2019	Fran Milat
2012	Emma Duncan	2020	David Scott
2013	Tara Brennan-Speranza	2021	John Kemp

SOL POSEN RESEARCH AWARD

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



2006	Nathan Pavlos	2014	Heath McGowan
2007	Aaron McDonald	2015	Dana Bliuc
2008	Haotian Feng	2016	Paul Lee
2009	Ming-Kang Chang	2017	Thao P. Ho-Le
2010	Tak Sum Cheng	2018	Nicola Lee
2011	Kylie Alexander	2019	Kai Chen
2012	Julie Quach	2020	Jungie Gao
2013	Farzin M Takyar	2021	Niloufar Ansar

PHILIP SAMBROOK AWARD

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



2012	Gustavo Duque	2017	Jansa Aleksova
2013	Emma Duncan	2018	Feitong Wu
2014	Kirtan Ganda	2019	Sabashini Ramchand
2015	Sharon Brennan-Olsen	2020	*Not Awarded
2016	Jinwen Tu	2021	*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
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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	2016	Jack Martin	2019	Ian Reid
2015	Howard Morris	2018	John Eisman	2021	David Findlay

ANZBMS 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
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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	2019	Kotaro Tanimoto	2021	Shoichiro Tani
2018	Marija Simic	2020	Lena Batoon	2022	Tian Nie

ANZBMS LIFE MEMBERS

Professor Henry Kaye Ibbertson (deceased)	Professor Thomas J. Martin	Professor John Elsman
Associate Professor Jane Moseley	Dr Donald Gutteridge	Professor Ego Seeman
Professor B.E.C Nordin (deceased)	Dr Ailsa Goulding	Professor Jillian Cornish
Dr Solomon Posen (deceased)	Associate Professor Michael Hooper	Professor Rebecca Mason

ANZBMS INTERNATIONAL TRAVEL AWARD

2018	Babtunde Ayodele, Dzenita Muratovic
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B.O.N.E PROGRAM

2019	Michelle McDonald
2020	Kylie Alexander



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REFERENCES: **1.** Watts JJ, et al. Osteoporosis costing all Australians - A new burden of disease analysis 2012 to 2022. Osteoporosis Australia. 2013. **2.** Amgen Australia, Data on File, 2020 (patients not treated). **3.** Australian Bureau of Statistics. Estimated Resident Population, 2018. Available at www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/3101.0Jun%202018?OpenDocument. Accessed 30 January 2020. **4.** Henry MJ, et al. Med J Aust 2011; 195: 321–22. **5.** Australian Bureau of Statistics. 2017-18 National Health Survey. Available at www.abs.gov.au/ausstats/abs@.nsf/mf/4364.0.55.001. Accessed 30 January 2020. **6.** Medicare Australia dataset up to Oct 2020 extrapolated (2020/MI8392), received 12/20. **7.** Healthy Bones Australia. Bone density testing in general practice. Available at: <https://healthybonesaustralia.org.au/wp-content/uploads/2021/03/HBA-GP-Bone-Density-brochure-v1.pdf>. Accessed 5 December 2021. **8.** Topping O. Ther Adv Musculoskelet Dis 2015;7: 88–102. **9.** Bone HG, et al. Lancet Diabetes Endocrinol 2017;5:513–23.

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AMGEN[®]

MEPSA OFFICE BEARERS 2022

MEPSA President	Prof Scott Byrne
MEPSA Secretary	Dr Katie Dixon
MEPSA Treasurer	Dr Wayne Reilly
MEPSA Past President	A/Prof Terry Piva

PAST MEPSA OFFICE BEARERS 1999-2022

YEAR	PRESIDENT	VICE PRESIDENT/ PRESIDENT ELECT	SECRETARY	TREASURER
1999 - 2000	Vivienne Reeve	Geoff Grigg / Don MacPhee	Sue Thomas	Geoff Dandie
2000 - 2001	Vivienne Reeve	Geoff Grigg / Don MacPhee	Jack Dempsey	Geoff Dandie
2001 - 2002	Vivienne Reeve	Geoff Grigg / Don MacPhee	Gary Halliday	Geoff Dandie
2002 - 2003	Vivienne Reeve	Geoff Grigg / Don MacPhee	Gary Halliday	Geoff Dandie
2003 - 2004	Vivienne Reeve	Liza Snow	Gary Halliday	Geoff Dandie
2004 - 2005	Geoff Dandie	Liza Snow	Michael Davies	Tim Rayner
2005 - 2006	Geoff Dandie	Liza Snow	Michael Davies	Tim Rayner
2006 - 2007	Geoff Dandie	Liza Snow	Terry Piva	Tim Rayner
2007 - 2008	Geoff Dandie	Liza Snow	Terry Piva	Tim Rayner
2008 - 2009	Liza Snow	Des Richardson	Terry Piva	Munif Allanson
2009 - 2010	Liza Snow	Des Richardson	Terry Piva	Munif Allanson
2010 - 2011	Liza Snow	Scott Byrne	Terry Piva	Wayne Reilly
2011 - 2012	Terry Piva	Scott Byrne	Shalini Muthusamy	Wayne Reilly
2012 - 2013	Terry Piva	Scott Byrne	Shelley Gorman	Wayne Reilly
2013 - 2014	Terry Piva	Scott Byrne	Shelley Gorman	Wayne Reilly
2014 - 2015	Terry Piva	Scott Byrne	Shelley Gorman	Wayne Reilly
2015 - 2016	Scott Byrne	Shelley Gorman	Katie Dixon	Wayne Reilly
2016 - 2017	Scott Byrne	Shelley Gorman	Katie Dixon	Wayne Reilly
2017 - 2018	Scott Byrne	Shelley Gorman	Katie Dixon	Wayne Reilly
2018 - 2019	Scott Byrne	Shelley Gorman	Katie Dixon	Wayne Reilly
2019 - 2020	Scott Byrne	Shelley Gorman	Katie Dixon	Wayne Reilly
2020 - 2022	Scott Byrne	Shelley Gorman	Katie Dixon	Wayne Reilly

AWARDS OF THE MOLECULAR AND EXPERIMENTAL PATHOLOGY SOCIETY OF AUSTRALIA

THE KUMAR AWARD

Named in honour of Prof Rakesh K Kumar, is for the best oral presentation by a postgraduate research student at the conference.

2000	Terrence Poon, Suzanne Sime	2006	Heidi Lim, Heather McGee, Keryn Simons, Eleni Yiasemiddes	2012	Gabriella Brown, Royce Ng
2001	Bernadette Bellette, Ritu Gupta	2007	Katie Dixon, Geetha Sivapirabu	2013	Katharine Herbert
2002	Nita Agar, Munif Allanson, Samantha Mead	2008	Heather McGee, Vanessa Sequeira	2014	Felix Marsh-Wakefield
2003	Louise Dunn, Lisa Kaminskas, Matthew Knox	2009	Georgia Frost, Paul Sou, Cesar Tovar	2015	Artur Shariev
2004	Michael Stapelberg	2010	Megan Whitnall, Gabriella Brown	2016	Clara Choi
2005	Cristan Herbert, Karen Tsang, Gemma Williams	2011	Sula Thanos, Amy Suthers, Shruti Saptarshi	2017	Amanda Patchett
				2018	*Not Awarded
				2019	*Not Awarded
				2020	Rachael Ireland
				2021	*Not Awarded

THE MULLER AWARD

Named in honour of Prof H Konrad Muller, is for the best oral presentation by a postdoctoral researcher at the conference, dependent on the number of eligible presentations.

2002	Michelle Grimbaldston	2009	*Not Awarded	2016	Angela Ferguson
2003	Scott Byrne	2010	Elke Hacker	2017	Katharine Herbert
2004	*Not Awarded	2011	*Not Awarded	2018	Felix Marsh-Wakefield
2005	Louise Dunn	2012	*Not Awarded	2019	*Not Awarded
2006	*Not Awarded	2013	Vanessa Sequeira	2020	Anneliese Gorman
2007	Roslyn Malley	2014	*Not Awarded	2021	*Not Awarded
2008	*Not Awarded	2015	*Not Awarded		

THE MACPHEE AWARD

Named in honour of the late Prof Donald G MacPhee (obituary), is for the best poster presentation at the conference, dependent on the number of poster presentations.

2002	*Not Awarded	2008	James Musyoka	2014	*Not Awarded
2003	*Not Awarded	2009	Gabby Brown	2015	*Not Awarded
2004	Heather McGee	2010	Cesar Tovar	2016	Terence McGonigle
2005	*Not Awarded	2011	Andrew Farrell	2018	*Not Awarded
2006	*Not Awarded	2012	Natasha Kolesnikoff	2019	*Not Awarded
2007	*Not Awarded	2013	*Not Awarded		

MEPSA LIFE MEMBERS

2002	Konrad Muller	2017	Gary Halliday	2017	Gregory Woods
2005	Geoff Grigg	2017	Rakesh Kumar	2020	Rebecca Mason
2008	Vivienne Reeve	2017	Liza Snow		

ANZORS OFFICE BEARERS 2022

ANZORS President

Secretary

Treasurer

Immediate Past President

New Zealand Representative

A/Prof Nathan Pavlos

Dr Martina Barzan

Dr Dane Turner

A/Prof Egon Perilli

Dr David Musson

Committee Members

A/Prof David Ackland, A/Prof Dominic Thewlis, Prof Hala Zreiqat, Prof Bogdan Solomon, A/Prof John Costi, A/Prof Justin Fernandez, Dr Zufu Lu, A/Prof Saulo Martelli, Prof Gerald Atkins, Prof Jiake Xu, Dr Pazit Levinger, Prof Peter Pivonka, Prof Thor Besier, Prof Cory Xian, Dr Ramin Rohanizadeh, A/Prof Tania Crotti

PAST ANZORS OFFICE BEARERS 1996-2024

YEAR	PRESIDENT	SECRETARY	TREASURER	IMMEDIATE PAST PRESIDENT	NEW ZEALAND REPRESENTATIVE
1996	David Wood				
1997	David Wood				
1998 - 2000	Peter Choong	David Findlay	David Findlay	David Wood	
2001 - 2003	David Findlay	Ming Hao Zheng	Ming Hao Zheng	Peter Choong	
2004 - 2005	Bill Walsh	David Haynes	S Cool	David Findlay	
2006	Bill Walsh	David Haynes	Jiake Xu	David Findlay	
2007 - 2009	David Haynes	Hala Zreiqat	Jiake Xu	Bill Walsh	
2010 - 2012	Hala Zreiqat	John Costi	Jiake Xu	David Haynes	
2013 - 2015	Jiake Xu	Dominic Thewlis	Nathan Pavlos	Hala Zreiqat	
2016 - 2018	Dominic Thewlis	Egon Perilli	Nathan Pavlos	Jiake Xu	
2019 - 2021	Egon Perilli	Tania Crotti	David Ackland	Dominic Thewlis	
2022 - 2024	Nathan Pavlos	Martina Barzan	Dane Turner	Egon Perilli	David Musson

AWARDS OF THE AUSTRALIAN AND NEW ZEALAND ORTHOPAEDIC RESEARCH SOCIETY

DAVID FINDLAY ECR AWARD WINNERS

2015	Geoffrey Handsfield	2018	Junje Gao	2020	*Not Awarded
2016	Rami Al-Dirini	2019	Dale Robinson	2021	Carina Blaker
2017	Claudia di Bella				

ECR AWARD WINNERS

2011	Egon Perilli	2013	Mariana Kersh
2012	Pazit Levinger	2014	John Arnold, Claire Jones

PHD STUDENT AWARD WINNERS

2011	Diana Perriman	2015	Audrey Chan	2019	Sophie Rapagna
2012	Melissa Cantley	2016	Vonne M van Heeswijk	2020	*Not Awarded
2013	Jiao Jiao Li	2017	Bryant Roberts	2021	Amy Ribet
2014	Bay Sie Lim	2018	Jacob Kenny		

MINGHAO ZHENG ORTHOPAEDIC INNOVATION AWARD WINNERS

2018	Jacob Kenny	2020	*Not Awarded
2019	Martina Barzan	2021	Scott Bolam

YOUNG INVESTIGATOR AWARD

1997	Andrew Zannettino	1998	Scott Mackie	1999	John Costi
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THE ONE TO WATCH AWARD

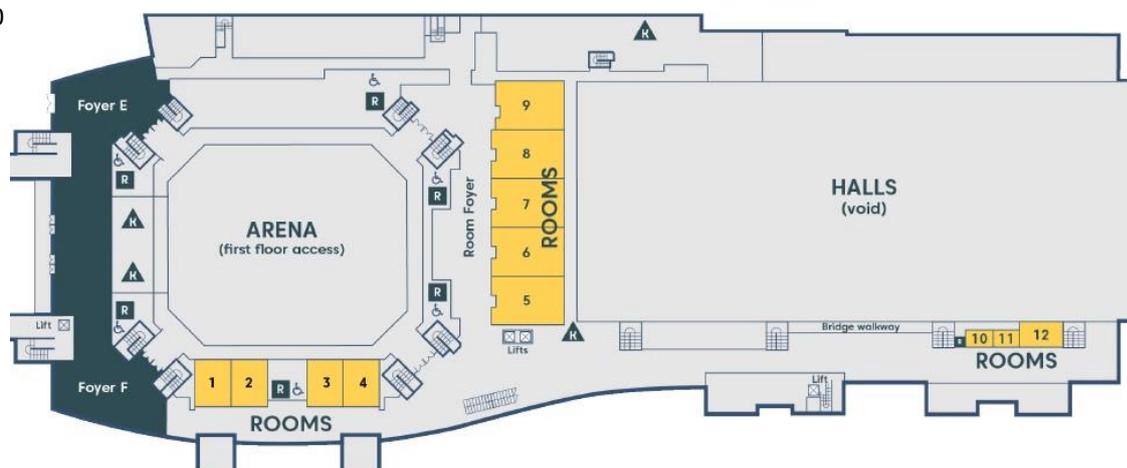
2018	Sophie Rapagna
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DELEGATE INFORMATION

VENUE

Gold Coast Convention and Exhibition Centre
2684 – 2690 Gold Coast Highway
Broadbeach, QLD 4218
Phone: +61 7 5504 4000

VENUE LAYOUT



THE REGISTRATION DESK

The registration desk is located in Foyer G located on the first floor. Any enquiries can be directed to ASN staff located at the registration desk except those regarding accommodation which should be dealt directly with your hotel.

The registration desk office hours are:

Monday 1 st August	12:00PM – 6:00PM
Tuesday 2 nd August	7:00AM – 6:30PM
Wednesday 3 rd August	8:00AM – 7:00PM
Thursday 4 th August	8:30AM – 4:00PM

LOADING YOUR ORAL PRESENTATION AT THE CONFERENCE

Oral presenters should bring their talk on a USB, saved in a format for display on a PC within the room (i.e. PowerPoint). You will need to load your presentation directly into the room in which you are presenting. A technician will be on hand to assist with any transfer / loading issues and to help you check your presentation. Please note there are no Macintosh computers in the presentation room – please format your USB drives appropriately (FAT32).

REGISTRATION

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

- Access to the sessions of your choice
- Conference book
- Use of the Conference App
- Morning and/or afternoon tea for the days of nominated attendance
- Lunches on the days of nominated attendance
- Welcome Function (Monday 1st August)
- Conference Dinner (Wednesday 3rd August)

NAME TAGS

Delegates are required to wear their name tags to all scientific and catered sessions. Delegates should note that within their name tag pouch will be the specific function tickets they have purchased.

POSTER VIEWING

Delegates with posters can find the correct position for their poster by locating the appropriate abstract number on the display panels. The Plenary posters are displayed within the Foyers E & F and general posters are also displayed within the Foyers E & F, both located on the first floor. Use the program reference (or ANZBMS – MEPSA – ANZORS smart phone APP) to identify your abstract number and poster position. Presenters should stand next to their poster during allocated poster sessions. **All posters** (located in Foyers E & F) can be mounted on **Monday afternoon** and must be removed by **lunch on Thursday**.

ANZBMS – MEPSA – ANZORS POSTER SESSIONS

There are three official poster sessions at this year's meeting:

ANBZMS Plenary Poster session – 6.00PM – 7.30PM, Monday 1st August, (Foyers E & F)

Poster session 1 – EVEN NUMBERS – 4.00PM – 5.00PM, Tuesday 2nd August, Foyers E & F (During Afternoon Tea)

Poster session 2 – ODD NUMBERS – 10:00AM – 11:00AM, Wednesday 3rd August (During Morning Tea)

SOCIAL FUNCTIONS

Welcome Function

Date: Monday 1st August 2022

Time: 6.00PM – 7.30PM

Price: Complimentary with Full Conference Registration

Location: Gold Coast Convention and Exhibition Centre

Additional ticket: \$70.00

**Additional tickets for partners can be purchased in advance or at the registration desk.*

ECIC - 'Bones & Brews' Networking Dinner

Date: Monday 1st August 2022

Time: 7.30PM – 10.30PM

Location: Kurrawa Surf Club – "Beachside"

Cost: \$40.00

Student/ECR cost: \$25.00

**This is a ticketed function; tickets can be purchased in advance or at the registration desk.*

ECIC Career Development Lunch

Date: Tuesday 2nd August 2022

Time: 12.30PM – 2.00PM

Price: \$25.00

Location: Room 7 & 8. Lunch provided.

Clinical Cases in Metabolic Diseases Seminar

Date: Tuesday 2nd August 2022

Time: 7.30PM – 8.00PM

Price: \$35 (Trainee or Student), \$50 (others)

Location: Room 7 & 8. Dinner and drinks provided

ANZBMS – MEPSA – ANZORS Conference Dinner

Date: Wednesday 3rd August 2022

Time: 7.30PM - Late

Price: \$80 (Student/ECR), \$120 (Other)

Location: Central Room A

**This is a ticketed function; tickets can be purchased in advance or at the registration desk. Pre-dinner drinks served from 7.15pm.*

RECORDING & STREAMING OF SESSIONS AT ANZBMS – MEPSA – ANZORS 2022

All sessions within rooms 5 & 6 and 7 & 8 will be recorded and live streamed at the conference. If you do not wish to have your presentation recorded, please advise ASN Staff at the registration desk. Details on accessing the live stream and recordings have been previously sent to your email.

LECTURE ROOMS

All lectures for the joint meeting will run on level 1 at the Convention Centre. Rooms 4, 5 -6, 7 & 7-8 will be used for the duration of the conference.

The conference lecture rooms are supported by 

DIETARY REQUIREMENTS

If you requested a special meal, please make yourself known to the venue staff and advise your name and special request.

SMOKING

Smoking is not permitted in the venue.

MOBILE PHONES

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

INSURANCE

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

DISCLAIMER

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

WI-FI INTERNET

Gold Coast Convention and Exhibition Centre provides complimentary Wi-Fi and signage will be placed around the venue and at the registration desk for access.

CONFERENCE APP

The App is displayed in a simple and easy to read format on your phone, iPad, or even your computer. To get the 'App', please open the following link in your internet browser on your phone, iPad or laptop: <http://anzbms-mepsa-anzors-2022.m.asnevents.com.au/>

Alternatively, scan the QR code below.



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

- View the full conference program
- View all abstracts for the conference
- View the author listing
- Save your favourite sessions and plan your day
- Take notes which will then be saved and downloaded from your registration profile.
- To use most of these functions, you will be prompted to 'log in' each day.

INVITED PLENARY SPEAKERS

ANZBMS PLENARY SPEAKERS

Dr Andrew Burghardt
University of California, USA

Dr Timo Damm
University of Kiel, Germany

Dr Monika Frysz
University of Bristol, United Kingdom

MEPSA PLENARY SPEAKERS

Prof. Robert Scragg
*School of Population Health,
University of Auckland, New Zealand*

Em. Prof Antony Young
*King's College London,
United Kingdom*

INVITED SYMPOSIUM SPEAKERS

ANZBMS SYMPOSIUM SPEAKERS

Prof. Belinda Beck
Griffith University, Australia

Prof. Peter Ebeling AO
Monash University, Australia

A/Prof Joshua Lewis
Edith Cowan University, Australia

Ms Sandy Bevc
XLH Australia

Dr Jenny Harrington
*Adelaide Women's and Children's
Hospital, Australia*

A/Prof Michelle McDonald
*Garvan Institute of Medical
Research, Australia*

Prof Mark Cooper
University of Sydney, Australia

Prof. Anne-Marie Hill
*The University of Western
Australia, Australia*

Mrs Anne Trinh
Monash Health, Australia

Prof. Robin Daly
Deakin University, Australia

MEPSA SYMPOSIUM SPEAKERS

Dr Anneliese Ashhurst
University of Sydney, Australia

Dr Jazmina Gonzalez Cruz
*University of Queensland
Diamantina Institute, Australia*

Dr Angela Ferguson
*The University of Sydney /
Centenary Institute, Australia*

Prof. Ronald Sluyter
*Illawarra Health and Medical
Research Institute, Australia*

Mr Furkan Ince
The University of Sydney, Australia

Ms Jacqueline Marshall
*University of Technology Sydney,
Australia*

ANZORS SYMPOSIUM SPEAKERS

Prof. Thor Besier
University of Auckland, New Zealand

Prof. Ross Crawford
*Queensland University of
Technology, Australia*

Prof. David Findlay
University of Adelaide, Australia

Dr Nathalie Bock
*Queensland University of
Technology, Australia*

A/Prof Claudia di Bella
University of Melbourne, Australia

Dr Kathryn Stok
University of Melbourne, Australia

MONDAY 1ST AUGUST 2022

TIME	Foyers E & F	Room 4	Room 7	Offsite
12:00pm	REGISTRATION OPEN			
12:30pm		MEPSA AGM		
1:00pm				
2:00pm				
3:30pm				
4:00pm – 5:30pm			ECIC Session: Science at Speed Networking Session Bridging the gap between EMCRs and Seniors	
6:00pm – 7:30pm	Welcome Function + ANZBMS Plenary Posters			
7:30pm – 10:00pm				Bones and Brews – Kurrawa Surf Club

TUESDAY 2ND AUGUST 2022

TIME	Foyers E & F	Rooms 5 & 6 LIVESTREAM 1	Rooms 7 & 8 LIVESTREAM 2	Room 4
7:30am – 9:00am			ANZBMS Therapeutics Breakfast Session	
9:00am – 10:30am		ANZBMS/MEPSA/ANZORS Plenary MSK Imaging		
10:30am – 11:00am	Morning Tea			
11:00am – 12:30pm		ANZBMS/AMGEN Outstanding Abstracts + Highest Rated Student Abstract	ANZORS-MEPSA Symposium: Musculoskeletal and Regenerative Biology	
12:30pm – 2:00pm	Lunch	Amgen Lunchtime Symposium: Clinical experience with romosozumab in Australia 12:35pm – 1:45pm	ECIC Career Development Lunch: Building Resilience in STEM: Bouncing forward not just back from adversity	
2:00pm – 4:00pm		ANZBMS Roger Melick Young Investigator Award Symposium + ANZBMS Oral Abstracts	ANZORS Symposium: ECR Award talks + Minghao Zheng Orthopaedic Innovation Award Talks + Oral Abstracts	MEPSA Symposium: Infection, Immunity and Inflammation I
4:00pm – 5:00pm	Afternoon Tea and Posters (Even)			
5:00pm – 7:00pm		ANZBMS/MEPSA/ANZORS Plenary - Musculoskeletal Management: Insights from Consumer Groups and Allied Health + ANZBMS Oral abstracts	ANZORS Symposium: Innovation in Bioengineering and Orthopaedics <i>Concludes at 6:30pm</i>	
7:30pm – 10:00pm			ECIC Clinical Cases in Metabolic Bone Disease Seminar	

PROGRAM AT A GLANCE

WEDNESDAY 3RD AUGUST 2022

TIME	Foyers E & F	Rooms 5 & 6 LIVESTREAM 1	Room 7 LIVESTREAM 2	Room 4	Central Room A
8:00am – 9:00am		ANZBMS Christopher and Margie Nordin Young Investigator Award Symposium ANZORS PHD Award Talks			
9:00am – 10:00am					
10:00am – 11:00am	Morning Tea and Posters (Odd)	ANZBMS/ANZORS/MEPSA Plenary: Cancer and Bone + ANZBMS Oral Abstracts			
11:00am – 1:30pm			Kyowa Kirin Lunchtime Symposium: Introducing Crysvisa - A new era in the management of XLH.	ANZORS AGM	
1:30pm – 2:30pm	Lunch				
2:30pm – 4:30pm		ANZBMS/ANZORS Symposium Session 3 Lifecourse Management of MSK Health: Paediatrics to Adulthood + ANZBMS Oral Abstracts	ANZORS Symposium: Biomechanics	MEPSA Symposium: Infection, Immunity and Inflammation II	
4:30pm – 5:00pm	Afternoon Tea				
5:00pm – 6:00pm		ANZBMS Oral Abstracts	ANZORS Symposium: Translational Orthopaedics	MEPSA Symposium: Models of Human Disease	
6:00pm – 6:30pm		ANZBMS AGM			
6:30pm – 7:00pm					
7:00pm – 7:30pm					
7:30pm – 11:30pm					Conference Dinner

THURSDAY 4TH AUGUST 2022

TIME	Foyers E & F	Rooms 5 & 6 LIVESTREAM 1	Room 7 LIVESTREAM 2	Room 4
9:00am – 10:30am		ANZBMS/MEPSA/ANZORS Vitamin D – The Essential Vitamin for Bone Health	ANZBMS Oral Abstracts	ANZORS Orals
10:30am – 11:00am	Morning Tea			
11:00am		ANZBMS Oral Abstracts		
12:00pm		ANZBMS Therapeutics vs Exercise: The Great Debate	ANZORS Symposium: Imaging	MEPSA Symposium – Vitamin D in Human Disease
1:00pm – 2:00pm	Lunch			
2:00pm – 4:00pm		ANZBMS Oral Abstracts + B.O.N.E Speaker		

PROGRAM

MONDAY 1ST AUGUST 2022

Registration Opens

12:00PM - 6:00PM

Foyer G

MEPSA AGM

12:30PM - 3:00PM

Room4

Lunch boxes provided for attendees of this session inside Rooms 4.

ECIC Speed Networking: bridging the gap between EMCRs and Seniors

4:00PM - 5:30PM

Room 7

Welcome Function + ANZBMS Plenary Posters

6:00PM - 7:30PM

Foyer E & F

Bones & Brews

7:30PM - 10:30PM

Kurrawa Surf Club

TUESDAY 2ND AUGUST 2022

Registration Opens

7:00AM - 6:30PM

Foyer G

ANZBMS Therapeutics Breakfast Discussion Session

7:30AM - 9:00AM

Rooms 7 & 8

Chairs: Belinda Beck & Richard Prince

7:30 AM **Belinda Beck**

The role of high intensity supervised exercise intervention in osteoporosis therapy.

7:55 AM **Madhuni Herath**

A local (ANZ) perspective on the management of primary hyperparathyroidism.

8:20 AM **Richard Prince**

The pharmaceutical prescription for prevention of fracture in Australia 2022.

ANZBMS-MEPSA-ANZORS Plenary: MSK Imaging

9:00AM - 10:30AM

Rooms 5 & 6

Chairs: Ayse Zengin & Kathryn Stok

9:00 AM **Andrew Burghardt**

Emerging approaches to investigate musculoskeletal health from HR-pQCT imagery *abs# 1*

9:30 AM **Joshua Lewis**

VFA's: You "aorta" look beyond vertebral fractures. *abs# 2*

10:00 AM **Timo Damm**

AI-driven image classification of radiographic data for prospective fracture prediction – global state and current work at the I²Lab. *abs# 3*

Morning Tea

10:30AM - 11:00AM

Foyer E & F

ANZBMS/AMGEN Outstanding Abstracts

11:00AM - 12:15PM

Rooms 5 & 6

Chairs: Natalie Sims & David Scott

11:00 AM **Charles Inderjeeth**

Treating osteoporosis and dementia with anti-dementia medication acetylcholinesterase inhibitors may have therapeutic benefits on osteoporotic bone by attenuating osteoclastogenesis and bone resorption *abs# 4*

11:15 AM **Michael J Rogers**

Bisphosphonates may boost immune responses to pulmonary infection by acting on tissue-resident macrophages in the lung *abs# 5*

11:30 AM **Minghao Zheng**

Endothelial cells require mitochondrial transfer from osteocytes to promote vascularization in cortical bone *abs# 6*

11:45 AM **Brya Matthews**

Epidemiology of fractures in different ethnic groups across the lifespan in New Zealand *abs# 7*

12:00 PM **John Eisman**

Fracture risk in women with osteoporosis treated with gastro-resistant (ec) risedronate versus immediate release risedronate or alendronate: a claims data analysis in the United States *abs# 8*

Session sponsored by



ANZBMS Highest Rated Student Abstract

12:15PM - 12:30PM

Rooms 5 & 6

Chairs: Natalie Sims & David Scott

12:15 PM **Tian Nie**

Estradiol increases bone mass and strength in a pre-clinical mouse model of male-to-female transition during adulthood *abs# 9*

ANZORS-MEPSA Symposium: Musculoskeletal and regenerative biology

11:00AM - 12:30PM

Rooms 7 & 8

Chairs: Nathan Pavlos & Rachel W. Li

11:00 AM **David Findlay**

RANKL discovery: a model for basic science research? *abs# 10*

11:30 AM **Amy Ribet**

Sugar transporter Slc37a2 regulates bone metabolism via a dynamic tubular lysosomal network in osteoclasts *abs# 11*

11:42 AM **Dzenita Muratovic**

Structural and cellular characterisation of the osteochondral tissue in hip and knee osteoarthritis. *abs# 12*

11:54 AM **Kieran J Bennett**

Strain Distributions Within the Proximal Tibia Calculated Using Digital Volume Correlation of Micro-CT Images *abs# 13*

12:06 PM **Carina Blaker**

Functional group differences in the biomechanical and biochemical properties of human hand tendons *abs# 14*

Lunch

12:30PM - 2:00PM

Foyer E & F

Amgen Lunchtime Symposium: Clinical experience with romosozumab in Australia

12:35PM - 1:45PM

Rooms 5 & 6

Chair: Dr Cherie Chiang

Prof Jackie Center

Endocrinologist, Garvan Institute of Medical Research, St Vincent's Hospital, Sydney

Clinical Prof Charles Inderjeeth

Rheumatologist & Geriatrician, North Metropolitan Health Service and University of Western Australia, Perth

Lunch boxes provided for attendees of this session outside of Rooms 5 & 6.

Session sponsored by 

ECIC Career Development Lunch: Building Resilience in STEM: Bouncing forward not just back from adversity

12:30PM - 2:00PM

Rooms 7 & 8

Chairs: John Kemp, Bridie Mulholland & Melissa Cantley

Identify your response to adversity in these tough times

Learn the 4-step Resilience method to regain control

Develop a simple plan to take back control and thrive in your career and life.

Lunch boxes provided for attendees of this session outside Rooms 7 & 8.

Session sponsored by



ANZBMS Roger Melick Young Investigator Award Symposium

2:00PM - 3:36PM

Rooms 5 & 6

Chairs: Jillian Cornish & Andrew Burghardt

- 2:00 PM **Martha Blank**
EphrinB2 and lysosomes in osteocytes are essential for collagen arrangement in the extracellular matrix *abs# 15*
- 2:12 PM **Ahmed AA Al Saeedi**
MicroRNA cargo of extracellular vesicles released by skeletal muscle negatively regulates the bone quality in obese mice *abs# 16*
- 2:24 PM **Kaitlyn A Flynn**
Identifying genes involved in hip osteoarthritis and describing the cells in which they are differentially expressed *abs# 17*
- 2:36 PM **Eugenie Macfarlane**
Skeletal glucocorticoid signalling plays a critical role in bone loss driven by circadian rhythm disruption *abs# 18*
- 2:48 PM **Ruth Frampton**
Asymptomatic vertebral fractures predict subsequent clinical fracture in both men and women *abs# 19*
- 3:00 PM **Huy G Nguyen**
Identification of asymptomatic vertebral fracture using Artificial Intelligence (AI) *abs# 20*
- 3:12 PM **Alexander H Seeto**
Bayesian Network Meta-Analysis of All-Cause Mortality in Trials of Osteoporosis Therapies *abs# 21*
- 3:24 PM **Elisabeth Ng**
A low serum alkaline phosphatase may signal the presence of hypophosphatasia in patients with reduced bone mineral density or fragility fractures *abs# 22*

ANZBMS Abstracts

3:36PM - 4:00PM

Rooms 5 & 6

Chairs: Jillian Cornish & Andrew Burghardt

- 3:36 PM **Grahame J Elder**
Patients on dialysis are at lower risk for mortality when treated with non-calcium-based phosphate binders. *abs# 23*
- 3:48 PM **Jeffrey Hassall**
The proportion of patients who reach the BMD surrogate threshold effect on romosozumab: a post hoc analysis of the randomised FRAME and ARCH phase 3 trials *abs# 24*

ANZORS ECR Award talks

2:00PM - 2:36PM

Rooms 7 & 8

Chairs: Carina Blaker & Dane Turner

- 2:00 PM **Peilin Chen**
Fabrication of bio-textile collagen rope for ACL regeneration *abs# 25*
- 2:12 PM **Azadeh Nasser**
Comparative Effects of Surgical And Non-Surgical Therapy on Hip Contact Force For Femoroacetabular Impingement Syndrome *abs# 26*
- 2:24 PM **Javad Tavakoli**
Intervertebral disc-on-a-chip: a precision-engineered platform for low back pain studies *abs# 27*

Minghao Zheng Orthopaedic Innovation Award talks

2:36PM - 3:00PM

Rooms 7 & 8

Chairs: Scott Bolam & Dane Turner

- 2:36 PM **Jiao Jiao Li**
On stem cell therapy for osteoarthritis: An *in vitro* investigation to explain clinical outcomes *abs# 28*
- 2:48 PM **Megan J Roser**
Vertebral Body Tethering Functions as an Internal Brace for Patients with Adolescent Idiopathic Scoliosis *abs# 29*

ANZORS Oral Abstracts

3:24PM - 4:00PM

Rooms 7 & 8

Chair: Dermot O'Rourke

- 3:24 PM **William S du Moulin**
Mechanical effects of semitendinosus tendon harvesting on knee function *abs# 30*
- 3:36 PM **Ashvin Thambyah**
Stribeck curves of cartilage-on-cartilage shearing: a comparison of healthy versus mildly degenerate tissue *abs# 31*
- 3:48 PM **Hans A Gray**
A six-dimensional envelope to describe failure in an amputated femur with an osseointegrated implant under external loads *abs# 32*

MEPSA Symposium: Infection, Immunity and Inflammation I

2:00PM - 4:00PM

Room 4

Chairs: Rachael Ireland & Scott Byrne

2:00 PM **Scott Byrne**

Harnessing peptide-based therapy to control inflammatory disease *abs# 33*

2:30 PM **Jack W Rawlings**

Immunomodulatory human peptide RP23 alleviates atopic dermatitis-like inflammation in an oxazolone-induced murine model of disease *abs# 34*

2:50 PM **Zhen Zeng**

Understanding CD8⁺ T cell killing mechanisms in UV-induced tumour models *abs# 35*

3:10 PM **Wendong Gao**

Targeting hematoma regulation via platelet membrane coating for advanced clot-immunomodulation *abs# 37*

3:40 PM **Rouha MS Granfar**

The effects of GCSF in human and murine osteoclast differentiation and mature function models *abs# 214*

Afternoon Tea + Even Numbered Poster Session

4:00PM - 5:00PM

Foyer E & F

ANZBMS-MEPSA-ANZORS Plenary: Musculoskeletal Management: insights from consumer groups & allied health

5:00PM - 6:00PM

Rooms 5 & 6

Chairs: Albert Kim & Belinda Beck

5:00 PM **Sandy Bevc**

Understanding the burden of disease for those living with X-Linked Hypophosphatemia: a consumer perspective. *abs# 38*

5:30 PM **Anne-Marie Hill**

Fall prevention – how to translate into client management of bone health *abs# 39*

Session sponsored by  **KYOWA KIRIN**

ANZBMS Abstracts

6:00PM - 7:00PM

Rooms 5 & 6

Chairs: Albert Kim & Belinda Beck

- 6:00 PM **Craig F Munns**
Understanding the burden of disease for those living with X-Linked Hypophosphatemia: a consumer perspective *abs# 40*
- 6:12 PM **Agnieszka Arthur**
Mice lacking ephrinB1 in the osteogenic lineage display craniomaxillofacial abnormalities *abs# 41*
- 6:24 PM **Charles Inderjeeth**
Lupus patients have increased fracture risk, recurrent fracture risk and 5 year mortality *abs# 42*
- 6:36 PM **Kylie A Alexander**
Gram negative bacterial infections drive neurogenic heterotopic ossification after spinal cord or brain injury in mice and humans *abs# 43*
- 6:48 PM **Liyan Wang**
A case of hypophosphatasia treated with asfotase alfa *abs# 44*

ANZORS Symposium: Innovation in Bioengineering and Orthopaedics

5:00PM - 6:30PM

Rooms 7 & 8

Chairs: Jillian Cornish & Mark Taylor

- 5:00 PM **Nathalie Bock**
Bioengineering humanized bone microenvironment models for cancer research applications. *abs# 45*
- 5:30 PM **Faseeh Zaidi**
Wearable sensors show differences in functional outcomes between robotic and conventional total knee arthroplasty *abs# 46*
- 5:42 PM **Praveen Krishna**
Comparing statistical shape modelling and contralateral mirroring in regenerating hemipelvis surface geometry *abs# 48*
- 5:54 PM **Lan Xiao**
Gold Nanocluster-induced Immunomodulation for Tissue regeneration via Mitophagy Regulation: A Perspective on Materiobiology *abs# 49*
- 6:06 PM **Katrina Browne**
Translation from bench to bedside: testing a novel antimicrobial bone allograft in a standard rabbit distal femoral defect model *abs# 50*

ECIC Clinical Cases in Metabolic Bone Disease Seminar

7:30PM - 10:00PM

Chairs: Albert Kim & Hanh Nguyen

Rooms 7 & 8

- 7:30 PM **Mawson Wang**
Skin and bones: systemic mastocytosis and osteoporosis *abs# 51*
- 7:50 PM **Emma Croker**
The RANK-L's with Polyostotic Fibrous Dysplasia Treatment in Adulthood *abs# 52*
- 8:10 PM **Lucy Collins**
An unusual cause of hypercalcemia in two siblings *abs# 53*
- 8:30 PM **Louise S Goodall**
Multiple vertebral fractures in a patient with severe COVID-19 treated with lung transplantation *abs# 54*
- 8:50 PM **Christopher Preston**
Diagnostic dilemma: progressive femoral lesion in a young woman *abs# 55*
- 9:10 PM **Tomasz J Block**
A RUNX1 germline mutation as a novel cause of previously unexplained severe osteoporosis in a young male *abs# 56*

MINIMUM PRODUCT INFORMATION CRYSVITA® (burosumab) solution for injection

THERAPEUTIC INDICATION: CRYSVITA® (burosumab) is indicated for the treatment of X-linked hypophosphataemia (XLH) in adults, adolescents and children 1 year of age or older. **DOSE AND ADMINISTRATION:** The recommended starting dose regimen for paediatrics (children 1-11yrs and adolescents 12-17yrs) is 0.8 mg/kg of body weight, rounded to the nearest 10 mg, every 2 weeks, up to a maximum dose of 90 mg. The recommended dose regimen in adults (18yrs and older) is 1 mg/kg of body weight, rounded to the nearest 10 mg up to a maximum dose of 90 mg, administered every 4 weeks. Treatment should be initiated and monitored by specialist medical practitioners experienced in the management of patients with metabolic bone disease. Fasting serum phosphate concentration should be below the reference range for age prior to initiation of treatment. CRYSVITA® is administered by subcutaneous injection and should be administered by a healthcare provider. The maximum volume of CRYSVITA® per injection site is 1.5 mL. If multiple injections are required, administer at different injection sites. **CONTRAINDICATIONS:** Hypersensitivity to CRYSVITA® or to any of the excipients. Concurrent administration with oral phosphate and / or active vitamin D analogues. Serum phosphate level within or above the normal range for age at initiation of treatment. Severe renal impairment or end stage renal disease. **PRECAUTIONS:** Discontinue oral phosphate and active vitamin D analogues at least 1 week prior to initiating CRYSVITA® treatment. Monitor for signs and symptoms of nephrocalcinosis, hyperphosphatemia, ectopic mineralisation, and serious hypersensitivity reactions. Administration should be interrupted in any patient experiencing severe injection site reactions. Discontinue if serious hypersensitivity reaction occurs. Monitoring for signs and symptoms of nephrocalcinosis due to ectopic mineralisation, e.g. by renal ultrasonography, is recommended at the start of treatment and every 6 months for the first 12 months

of treatment, and annually thereafter. Monitoring of urine calcium and phosphate is suggested every 3 months. Monitoring of plasma alkaline phosphatase, calcium, parathyroid hormone (PTH) and creatinine is recommended every 6 months (every 3 months for children 1 - 2 years) or as indicated. **INTERACTIONS:** Concurrent administration of CRYSVITA® with oral phosphate and active vitamin D analogues is contraindicated as it may cause an increased risk of hyperphosphatemia and hypercalcaemia. Caution should be exercised when combining CRYSVITA® with calcimimetic medicinal products. **ADVERSE EFFECTS:** Very common adverse reactions (>10%) reported in paediatric patients (≥1-17yrs) during clinical trials who had received at least 1 dose of CRYSVITA® were: injection site reactions, cough, headache, pyrexia, pain in extremity, vomiting, tooth abscess, vitamin D decreased, diarrhoea, rash, nausea, constipation, dental caries and myalgia. Common adverse reactions (≤10%) reported in paediatric patients ≥1 year of age during clinical trials who had received at least 1 dose of CRYSVITA® were: dizziness and blood phosphorus increased. Very common adverse reactions (>10%) reported in adult patients (≥18yrs) who had received at least 1 dose of CRYSVITA® during clinical trials were: back pain, headache, tooth infection, restless legs syndrome, muscle spasms, vitamin D decrease and dizziness. Common adverse reactions (≤10%) reported in adult patients who had received at least 1 dose of CRYSVITA® during clinical trials were: constipation and blood phosphorus increased. Content based on full CRYSVITA® Product Information. Date Approved: 10 Sept 2021.

Please review full Product Information before prescribing. Product Information is available at: <https://www.kyowakirin.com/australia/our-medicines/doc/crysvita-product-information-leaflet.pdf>

PBS INFORMATION: This medicine is not available through the PBS

INTRODUCING



CRYSVITA[®]

(burosumab)

A new fully human monoclonal antibody for XLH* treatment¹

CRYSVITA[®] restores phosphate homeostasis^{2,3}

In Children

Compared to conventional therapy, CRYSVITA[®]:



Significantly improved rickets healing and reduced severity²



Significantly improved growth and mobility outcomes²



Significantly improved biochemical markers of phosphate regulation and bone health²

In Adults

Compared to baseline, CRYSVITA[®]:



Improved fracture and pseudofracture healing⁵



Significantly improved physical function and mobility whilst reducing stiffness and pain at its worst⁵



Improved quality of life^{5,4}

Adverse events were generally mild or moderate in severity^{2,3}
No adverse drug reactions led to treatment discontinuation^{2,3}

PBS INFORMATION: This medicine is not available through the PBS

Recommended for inclusion on the PBS at the May 2022 PBAC Intracycle Meeting.⁵
Visit us at ANZBMS booth 8/9 for further information.

Please review full [Product Information](#) before prescribing. Minimum Product Information is available from the adjacent page. CRYSVITA[®] (burosumab) is indicated for the treatment of X-linked hypophosphataemia (XLH) in adults, adolescents and children 1 year of age or older.¹

▼ 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. Adverse events can be reported at pv.kkau.2r@kyowakirin.com * XLH: X-Linked Hypophosphataemia **References: 1.** Australian Product Information for Crysvita[®] (burosumab) approved 2021. Available at: https://www.kyowakirin.com/australia/our_medicines/doc/crysvita_product_information_leaflet.pdf. Last accessed June 2022. **2.** Imel EA et al. Lancet 2019;393:2416-2427 **3.** Portale AA, et al. Calcif Tissue Int. 2019;105:271-84 **4.** Ruppe M, Gene Reviews. 2017 <https://www.ncbi.nlm.nih.gov/books/NBK83985/> **5.** Department of Health. PBAC Outcomes. Available at: <https://www.pbs.gov.au/industry/listing/elements/pbac-meetings/pbac-outcomes/2022-05/May-2022-PBAC-Web-Outcomes.pdf>. Accessed 17 June 2022.

WEDNESDAY 3RD AUGUST 2022

Registration Opens

8:00AM - 7:00PM

Foyer G

ANZBMS Christopher and Margie Nordin Young Investigator Award Symposium

8:00AM - 9:00AM

Rooms 5 & 6

Chairs: Marc Sim & Rachel Davey

- 8:00 AM **Delin Liu**
Regulation of blood-brain barrier by a subset of astrocytes that express osteocyte marker DMP-1
abs# 244
- 8:06 AM **Ensieh Hajimotallebi**
Identification of epigenetic factors deregulated in skeletal stem cells during high fat/glucose mediated inhibition of bone formation. *abs# 245*
- 8:12 AM **Yuqing Mu**
The osteoinductive potential of the nutrient inorganic components from the bone microenvironment for *in situ* bone tissue engineering *abs# 246*
- 8:18 AM **Dinh-Tan Nguyen**
Automated Grading System of Radiographic Knee Osteoarthritis Severity Using Deep Learning *abs# 247*
- 8:24 AM **Selwin Gabriel Samuel**
Pathogen-associated molecular patterns produced by infectious microbes worsen Neurogenic Heterotopic Ossifications after spinal cord injury *abs# 248*
- 8:30 AM **Abadi Kahu Gebre**
Clinical cardiovascular disease and long-term falls risk: The Perth Longitudinal Study of Ageing in Women *abs# 249*
- 8:36 AM **Navira Samad**
Poor alignment of a smaller femur with the upper body may contribute to increased fracture risk in women with POI *abs# 250*
- 8:42 AM **Jun Yuan**
Elevated bone-derived sclerostin in plasma is associated with high brain amyloid- β load in cognitively normal older adults *abs# 251*
- 8:48 AM **Anuj Shah**
Changes in body composition are associated with incident vertebral deformities over 10.7 years *abs# 252*
- 8:54 AM **Carrie-Anne Ng**
Associations of Mechanical Loading from Physical Activity with Bone Mineral Density, Physical Function and Knee Impairment in Older Adults: the Tasmanian Older Adult Cohort (TASOAC) Study *abs# 253*

ANZORS PhD award talks

9:00AM - 10:00AM

Rooms 5 & 6

Chairs: Amy Ribet & David Ackland

- 9:00 AM **Kieran J Bennett**
Ex vivo assessment of surgically repaired tibial plateau fracture displacement under axial load using large-volume micro-CT *abs# 57*
- 9:12 AM **Beichen Shi**
Development of predictive statistical shape models for paediatric lower limb bones *abs# 58*
- 9:24 AM **Lauren S Wearne**
Anterior lift-off of implanted press-fit tibial tray during deep knee bend: a time-elapsd micro-CT and digital volume correlation analysis. *abs# 59*
- 9:36 AM **Samantha A Hefferan**
Histological characterisation of different tendons of the human hand *abs# 60*
- 9:48 AM **Nicholas J Gunn**
Examination of the interaction of autophagy and antibiotics in *Staphylococcus aureus* persistent infection of osteocytes *abs# 61*

Morning Tea + Odd Numbered Poster Session

10:00AM - 11:00AM

Foyer E & F

ANZBMS/ANZORS/MEPSA Plenary: Cancer and bone

11:00AM - 12:30PM

Rooms 5 & 6

Chairs: Melissa Cantley, Ross Crawford & Scott Byrne

- 11:00 AM **Michelle McDonald**
Bone microenvironment regulation of tumour outgrowth *abs# 62*
- 11:30 AM **Claudia Di Bella**
Bioengineering solutions for articular cartilage regeneration *abs# 63*
- 12:00 PM **Ronald Sluyter**
The ATP-P2X7 signalling axis in graft-versus-host disease: Recent insights from humanised mouse studies *abs# 64*

ANZBMS Abstracts

12:30PM - 1:30PM

Rooms 5 & 6

Chairs: Melissa Cantley & Hong Zhou

- 12:30 PM **Emma J Buckels**
Transient lipodystrophy protects against high-fat diet-induced bone volume loss in male mice *abs# 65*
- 12:42 PM **Thach Tran**
Multimorbidity compounds excess mortality following proximal fractures: A nationwide cohort study *abs# 66*
- 12:54 PM **Ming-Hao Zheng**
Osteocytes regulate organismal senescence of bone and bone marrow *abs# 67*

1:06 PM **Melissa D Cantley**
Spatially resolving the bone marrow microenvironment in MGUS and multiple myeloma *abs# 68*

Lunch

1:30PM - 2:30PM

Foyer E & F

Kyowa Kirin Lunchtime Symposium: Introducing Crysvita - A new era in the management of XLH.

1:40PM - 2:20PM

Room 7

Chair: Peter Ebeling

1:40 PM Topic 1. Welcome from the Sponsor
Dr Tiffany Bamford, Kyowa Kirin Australia Medical Affairs

1:43 PM Introductions & learning objectives from the Chair
Prof Peter Ebeling (Chair), Head Dept of Medicine, School of Clinical Sciences at Monash Health, Faculty of Medicine, Nursing and Health Sciences

Topic 2. X-Linked Hypophosphataemia

1:45 PM XLH: Looking back, looking forward
Prof Craig Munns, Head of Mayne Academy of Paediatrics and Director of Child health Research Centre, University of Queensland; Paediatric Endocrinologist, Queensland Children's Hospital.

Topic 3: Introducing CRYSVITA® (burosumab) - a new treatment option for XLH

1:50 PM The safety and efficacy of CRYSVITA® in paediatrics
Prof Craig Munns, Head of Mayne Academy of Paediatrics and Director of Child health Research Centre, University of Queensland; Paediatric Endocrinologist, Queensland Children's Hospital.

1:58 PM The safety and efficacy of CRYSVITA® in adults
Dr Syndia Lazarus, Endocrinologist, Queensland Health

Panel Discussion

2:06 PM The practical use of CRYSVITA® in Australia
Prof Peter Ebeling, Prof Craig Munns & Dr Syndia Lazarus

2:18pm Close
Prof Peter Ebeling (Chair)

Lunch boxes provided for attendees of this session outside of Room 7.

Session sponsored by 

ANZORS AGM

1:30PM - 2:30PM

Room 4

Lunch boxes provided for attendees of this session outside of Room 4.

ANZBMS/ANZORS Symposium: Lifecourse management of MSK health: paediatrics to adulthood

2:30PM - 3:30PM

Rooms 5 & 6

Chairs: Peter J Simm & Hanh Nguyen

2:30 PM **Jenny Harrington**

Transitioning adolescents with osteogenesis imperfecta to adult care: challenges and opportunities.
abs# 69

3:00 PM **Anne Trinh**

Transition services for bone health in adolescents and young adults *abs# 70*

ANZBMS Abstracts

3:30PM - 4:30PM

Rooms 5 & 6

Chairs: Peter J Simm & Hanh Nguyen

3:30 PM **Dermot O'Rourke**

Geometry and bone mineral density determinants of femoral neck strength changes following exercise *abs# 71*

3:42 PM **Elaine M Dennison**

What impact have therapeutic advances for musculoskeletal health had on mortality risk – do we see differential relationships for muscle and bone? *abs# 72*

3:54 PM **Ngoc Huynh**

Association Between Lifestyle Factor and Bone Loss in Elderly Women *abs# 73*

4:06 PM **David Scott**

A 6-month digital health osteoporosis self-management intervention delivered via Amazon Alexa improved osteoporosis knowledge and falls self-efficacy in postmenopausal women with osteoporosis *abs# 74*

4:18 PM **Tuan V Nguyen**

An individualized approach for assessing change in bone mineral density *abs# 75*

ANZORS Symposium: Biomechanics

2:30PM - 4:36PM

Room 7

Chairs: Belinda Beck, David John Saxby & Geoffrey Handsfield

2:30 PM **Thor Besier**

All models are wrong, but some are useful: The challenge of model complexity for orthopaedic application *abs# 76*

3:00 PM **Ryan Tiew**

Finite element modelling to predict femoral fractures in transfemoral amputees with osseointegrated implants *abs# 77*

3:12 PM **Sarah Woodford**

Three-dimensional kinematics of the jaw following unilateral and bilateral prosthetic TMJ surgery *abs# 78*

3:24 PM **Ziming Chen**

Overload-induced extracellular mitochondria releasing from tendon organoid leads to inflammation *abs# 79*

3:36 PM **Dale L Robinson**
Lumbar spinal canal occlusion due to bulging of intervertebral disc *abs# 80*

BREAK

3:54 PM **Yihang Yu**
A pipeline to morph the finite element model of lumbar spine *abs# 81*

4:06 PM **Hossein Mokhtarzadeh**
A nonlinear controller algorithm to design a self-paced treadmill based on the real-time center of mass data *abs# 82*

4:18 PM **Alexis Brierty**
Surgical outcomes following tibialis anterior tendon transfer for recurrent congenital talipes equinovarus (CTEV). *abs# 83*

MEPSA Symposium: Infection, Immunity and Inflammation II

2:30PM - 4:30PM

Room 4

Chairs: Anneliese Ashhurst & Angela Ferguson

2:30 PM **Anneliese s Ashhurst**
Mucosal protein-based vaccination with a TLR2-stimulating adjuvant induces potent local immunity against SARS-CoV-2 in mice *abs# 84*

3:00 PM **Angela L Ferguson**
High-dimensional spatial analysis of the tumour-microenvironment to determine metastatic disease progression and response and resistance to therapy. *abs# 85*

3:30 PM **Jacqueline Marshall**
Tuft cells regulate inflammation in the lung during influenzaA virus infection *abs# 86*

4:00 PM **Rachael A Ireland**
Local and systemic effects of narrowband UVB irradiation in mice *abs# 87*

Afternoon Tea

4:30PM - 5:00PM

Foyer E & F

ANZBMS Abstracts

5:00PM - 6:00PM

Rooms 5 & 6

Chairs: David Findlay & Cassandra Smith

5:00 PM **Hanh H Nguyen**
Artificial Intelligence Based Diagnostic Software for Atypical Femur Fractures *abs# 88*

5:12 PM **Ali Ghasem-Zadeh**
Variance in Estimated Strength Along the Femoral Neck and Radius is Accounted for Differences in Macro- and Micro-architecture, not Bone Mass *abs# 89*

5:24 PM **Marc Sim**
Association between automated abdominal aortic calcification 24 scoring obtained from lateral spine images with long-term fracture risk: the Perth Longitudinal Study of Ageing Women *abs# 90*

5:36 PM **Jakub Mesinovic**
Agreement and associations between bone variables assessed via standard and high-resolution peripheral quantitative computed tomography *abs# 91*

5:48 PM **Andrew J Burghardt**
Contribution of local density variation to micro-finite element analysis in pediatric HR-pQCT *abs# 92*

ANZBMS AGM

6:00PM - 6:30PM

Rooms 5 & 6

ANZORS Symposium: Translational Orthopaedics

5:00PM - 6:30PM

Room 7

Chairs: Peter Lee & Claudia Di Bella

5:00 PM **Ross Crawford**
Translational orthopaedics from an academic surgeons perspective *abs# 93*

5:30 PM **Stuart Callary**
Development of a patient specific workflow for the corroboration of FE models with clinical migration data: A case study of the implanted acetabulum *abs# 94*

5:42 PM **Sanaa Zaki**
Sex differences in a pre-clinical model of injury-induced osteoarthritis *abs# 95*

5:54 PM **Chan Hee Cho**
Can RSA measurements predict long-term acetabular implant loosening earlier than the current two-year time point? *abs# 96*

6:06 PM **Anja R Zelmer**
Evaluating the effectivity of treatment options for intracellular *S. aureus* infections in osteomyelitis *abs# 97*

6:18 PM **Aaron Hammat**
The Increased Hospital Cost of Treating Septic Revision Total Hip Arthroplasty *abs# 98*

MEPSA Symposium: Models of Human Disease

5:00PM - 7:00PM Room 4

Chairs: James Wells & Jazmina-Libertad Gonzalez-Cruz

5:00 PM **Jazmina L Gonzalez-Cruz**
Making personalization of cancer treatment a reality with Spatial transcriptomics *abs# 99*

5:30 PM **James W Wells**
Development of a novel compound for the treatment of SCC in organ transplant recipients *abs# 100*

6:00 PM **Shoaib Anwaar**
Is there a role for regulatory T cells in the establishment of Cutaneous Squamous Cell Carcinoma? *abs# 101*

Conference Dinner

7:30PM - 11:30PM

Central Room A

*Pre-dinner drinks served from 7:15pm

THURSDAY 4TH AUGUST 2022

Registration Opens

8:30AM - 4:00PM

Foyer G

ANZBMS-MEPSA-ANZORS Plenary: Vitamin D - the essential vitamin for bone health

9:00AM - 10:30AM

Rooms 5 & 6

Chair: Rebecca Mason

9:00 AM **Antony R Young**

Physical determinants of vitamin D synthesis *abs# 102*

9:40 AM **Robert Scragg**

Vitamin D and Health – where is the research heading? *abs# 103*

ANZBMS Abstracts

9:00AM - 10:30AM

Room 7

Chairs: Jason Talevski & Joshua Lewis

9:00 AM **Takayuki Nabeshima**

Delayed cortical bone healing due to inactivated Nrf2 signaling pathway in COPD mice *abs# 104*

9:12 AM **Kara B Anderson**

Can alternative bone measures improve prediction of fracture in individuals with osteopenia or normal BMD? *abs# 105*

9:24 AM **Vasilios Panagopoulos**

Plant-derived soybean peroxidase stimulates osteoblast collagen biosynthesis, matrix mineralization, and accelerates bone regeneration in a sheep model *abs# 106*

9:36 AM **Weiwen Chen**

Ankle fractures increase subsequent fracture risk and mortality: The 45 and Up study, a population-based cohort study of New South Wales, Australia *abs# 107*

9:48 AM **Brya Matthews**

Identifying Adult Human Skeletal Stem/Progenitor Cells in the Periosteum *abs# 108*

10:00 AM **Jayde A Collier**

Is chronic peripheral vestibular dysfunction associated with bone-related and fall-related indices of fracture risk in community-dwelling older women? *abs# 109*

10:12 AM **Yinghong Zhou**

The Regulatory Effect of Macrophages on Osteocytes *abs# 110*

ANZORS Abstracts

9:00AM - 10:30AM

Room 4

Chairs: Gerald Atkins & Nathalie Bock

- 9:00 AM **Stephanie Khuu**
A multi-scale mechanobiological model of skeletal muscle regeneration in typical and pathological conditions *abs# 111*
- 9:12 AM **David Musson**
The effect of saturated fatty acid exposure on tenocyte health *abs# 112*
- 9:24 AM **Boopalan Ramasamy**
Comparative analysis of human migratory and fibronectin adhesion assay derived chondroprogenitors to assess superiority for cartilage repair *abs# 113*
- 9:36 AM **Scott M Bolam**
A high-fat diet has negative effects on tendon resident cells in an in vivo rat model *abs# 114*
- 9:48 AM **Rachel W. R Li**
A Novel Material Evidences a Great Potential in Future Orthopaedic Implant *abs# 115*

Morning Tea

10:30AM - 11:00AM

Foyer E & F

ANZBMS Abstracts

11:00AM - 12:00PM

Rooms 5 & 6

Chairs: John Kemp & Julie Pasco

- 11:00 AM **Jiake Xu**
ADR3, a next generation i-body to human RANKL, inhibits osteoclast formation and bone resorption *abs# 116*
- 11:12 AM **Jeff Hassall**
Long-term Effect of Denosumab on Bone Microarchitecture as Assessed by Tissue Thickness–Adjusted Trabecular Bone Score (TBS) in Postmenopausal Women with Osteoporosis: Results from the FREEDOM and Open-Label Extension (OLE) *abs# 117*
- 11:24 AM **Natalie Wee**
Osteoblast precursor or osteoblast? Tracking cell differentiation *in vivo* and *in vitro* *abs# 118*
- 11:36 AM **Ian Reid**
Zoledronate Reduces Height Loss Independently of Vertebral Fracture Occurrence in a Randomized Trial in Osteopenic Older Women *abs# 119*
- 11:48 AM **Peter Dr Pivonka**
Assessment of strategies for safe drug discontinuation and transition of denosumab treatment in PMO - insights from a mechanistic PK/PD model of bone turnover *abs# 120*

ANZORS Symposium: Imaging

11:00AM - 12:30PM

Room 7

Chairs: Thor Besier, Egon Perilli & Azadeh Nasserri

11:00 AM **Kathryn Stok**

A in vivo microCT imaging protocol for reproducible quantitative morphometric analysis of joint structures *abs# 121*

11:30 AM **Xiaolong Fan**

Time-elapsed micro-CT imaging of humeral implant failure in reverser shoulder replacement *abs# 122*

11:42 AM **Geoffrey Handsfield**

Muscle and Fascia Structural Changes Following Ankle Sprain Injury and Immobilization *abs# 123*

11:54 AM **Rachel Chalmers**

Current challenges of 3D-printing spinal orthoses *abs# 124*

12:06 PM **Jingrui Hu**

Linking the Ultrastructure and Micromechanics of Articular Cartilage *abs# 125*

ANZBMS Therapeutics vs Exercise: the Great Debate

12:00PM - 1:00PM

Rooms 5 & 6

Chair: Craig Munns

Panel: Team Therapeutics: Peter Ebeling & Mark Cooper **VS Team Exercise:** Belinda Beck & Robin Daly

MEPSA Symposium - Vitamin D in Human Disease

11:00AM - 1:00PM

Room 4

Chairs: Grant Parnell & Katie Dixon

11:00 AM **Paul H Anderson**

Mammary-specific ablation of Cyp24a1 reduces mammary density and inhibits tumour development in MMTV-PyMT breast cancer mice *abs# 126*

11:30 AM **Grant P Parnell**

Defining how vitamin D promotes tolerogenic dendritic cells to enable its use in combined therapy for multiple sclerosis and other autoimmune diseases. *abs# 127*

11:55 PM **Katie M Dixon**

Photoprotection by vitamin D compounds: finding the missing pieces to the photocarcinogenesis puzzle. *abs# 128*

12:20 PM **Furkan A. Ince**

Photoprotection by vitamin D compounds: uncovering markers that predict efficacy in reducing photocarcinogenesis. *abs# 129*

12:45 PM **Kun (Kathy) Zhu**

Tracking of vitamin D status and its association with bone loss in middle-aged Australians: Busselton Healthy Ageing Study. *Abs# 209*

Lunch

1:00PM - 2:00PM

Foyer E & F

ANZBMS Abstracts

2:00PM - 3:24PM

Rooms 5 & 6

Chairs: Richard Prince & Monika Frysz

- 2:00 PM **Yea Rin Olivia Lee**
Mass spectrometry imaging spatially identifies complex-type *N*-glycans as putative cartilage degradation markers in human knee osteoarthritis tissue *abs# 130*
- 2:12 PM **Itamar Levinger**
A meta-analysis examining the impact of wait time for orthopaedic consultation on pain levels in individuals with osteoarthritis *abs# 131*
- 2:24 PM **Dzenita Muratovic**
Compromised Osteocyte Viability and Connectivity: a Key Contributor to the Pathogenesis of Human Hip Osteoarthritis. *abs# 132*
- 2:36 PM **Zubeyir Salis**
Loss of body mass index (BMI) reduces the need for knee replacement: a multi-cohort survival analysis *abs# 133*
- 2:48 PM **Jiao Jiao Li**
Unveiling the role of microRNA-1 in chondrocytes and osteoarthritis *abs# 134*
- 3:00 PM **Thach Tran**
Fracture risk assessment: does competing risk adjustment make a difference? *abs# 135*
- 3:12 PM **Xiwei Fan**
Advanced Mass Spectrometry imaging technique provides novel approaches to understanding the lipid fingerprinting of osteoarthritis progression *abs# 136*

B.O.N.E Speaker Presentation

3:24PM - 3:54PM

Rooms 5 & 6

Chairs: Richard Prince & Monika Frysz

- 3:24 PM **Monika Frysz**
Observational and genetic relationships between hip shape and hip osteoarthritis: findings from UK Biobank *abs# 137*

POSTER LISTING

PLENARY POSTERS

Kara Anderson

Parental fracture in early life predicts early life fracture risk in offspring *abs# 200*

Yosuke Mano

The effect of astaxanthin on the structural alterations in muscles of elastase-induced emphysema mouse models *abs# 201*

Anoohya Gandham

Associations of body mass index, body fat percentage and sarcopenia components with bone health estimated by second-generation high-resolution peripheral quantitative computed tomography in older adults with obesity *abs# 202*

Asrar Elahi

Development of Optimised Sintered Bovine Bone Block for Oral Grafting: Physio-chemical, mechanical and biological characterisation *abs# 203*

Duy K. Hoang

Gender-related differences in bone architecture in Vietnamese *abs# 204*

Alexander H Seeto

Bayesian Network Meta-Analysis of Cancer Events in Trials of Osteoporosis Therapies *abs# 205*

Hoo Young Lee

Discordance in paretic and non-paretic hips bone density in hemiplegic stroke patients – a cross-sectional multicenter retrospective study *abs# 206*

Alexander J. Rodriguez

Coronary stenosis scores in a cohort of osteoporosis medication users undergoing cardiac computed tomography at a single tertiary centre *abs# 207*

Dana D Bliuc

Fracture does not exist in isolation: What do commodities contribute to subsequent fracture and mortality risk? *abs# 208*

Kun (Kathy) Zhu

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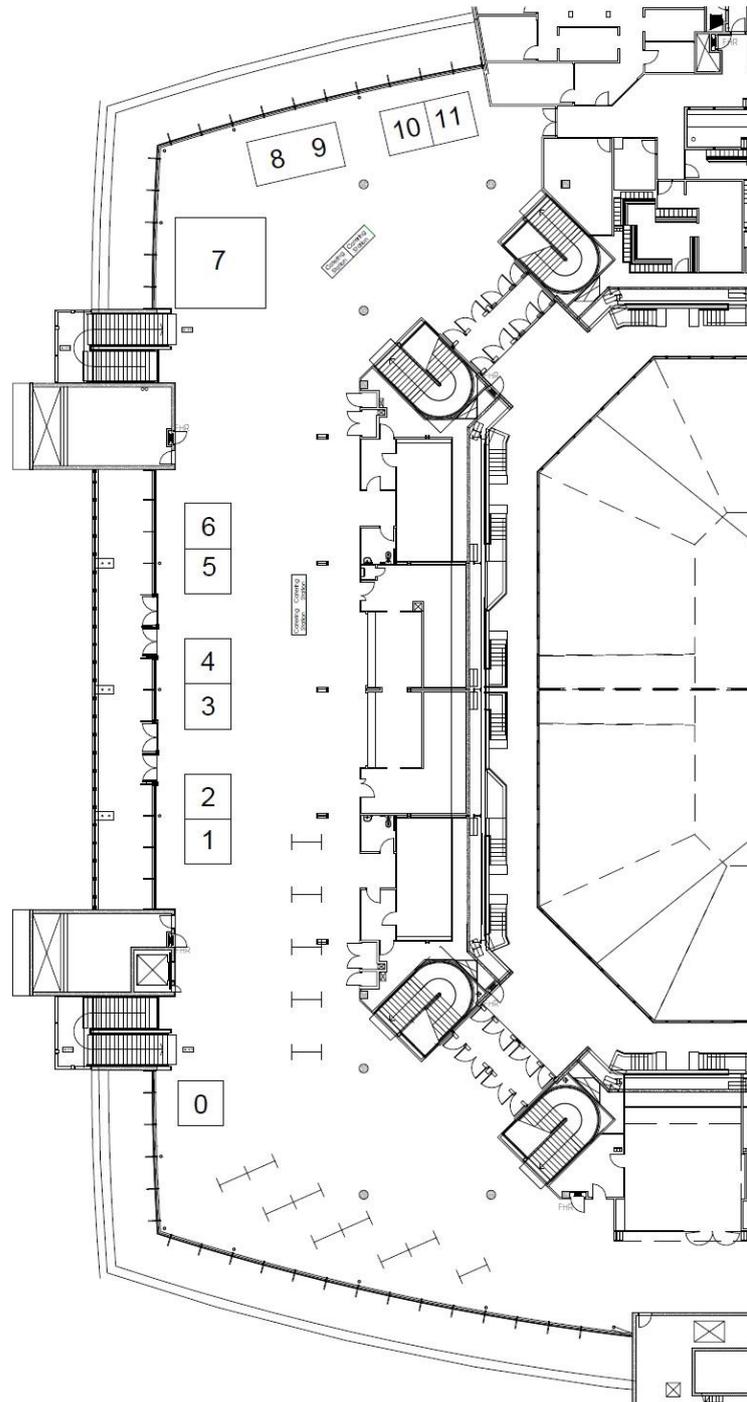
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Booth 7

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"Wunya" and "sew ngapa" Wunya (welcome, greetings) is from the Yuggera language of Brisbane and the Gubbi Gubbi language of the Sunshine Coast. Sew ngapa (welcome) is from the Kala Lagaw Ya and Kala Kawaw Ya languages of the Western Torres Straits. Our garden's a one-million-year-old rainforest. Out the back is a red desert of dinosaur bones. Our swimming pool? The world's largest reef. Here, you'll find experiences like nowhere else on the planet, but where the most simple moments are just as memorable. Where we can reconnect with nature, ourselves and our loved ones by finding joy in both the big and little things, together. Simply put - your Days Like This are waiting.

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Australia and New Zealand Bone and Mineral Society (ANZBMS)

Booth 0

www.anzbms.org.au

ANZBMS is a professional medical / scientific society established in 1988 to bring together clinical and experimental scientists and physicians actively involved in the study of bone and mineral metabolism in Australia and New Zealand. The mission of the ANZBMS is to be the premier Australasian society in the field of bone and mineral metabolism through promoting excellence in bone and mineral research, fostering the integration of clinical and basic science, and facilitating the translation of our science to health care and clinical practice. Key objectives to achieve these goals include the nurturing and development of the future generations of basic and clinical scientists, and the dissemination of new knowledge in bone and mineral metabolism through our Annual Scientific Meeting. The ANZBMS will be proactive in shaping research and health policies based on scientific advances in our field.

Ecolight / Cortex Health

Booth 6

www.echolightmedical.com.au

Echolight (distributed by Cortex Health) is new technology using Radiofrequency Echographic Multi Spectrometry (REMS) via ultrasound through scanning of central reference sites of lumbar vertebrae (L1-L4) and the femoral neck. This assessment determines a T-score, Z-score and BMD (g/cm²) values and give a diagnosis of normal/osteopenia/osteoporosis. TGA approved medical device.

GE Healthcare

Booth 11

As a leading global medical technology, diagnostics and digital solutions innovator, GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform. With over 100 years of healthcare industry experience and around 50,000 employees globally, the company operates at the centre of an ecosystem working toward precision health, digitizing healthcare, helping drive productivity and improve outcomes for patients, providers, health systems and researchers around the world. We embrace a culture of respect, transparency, integrity and diversity.

Gedeon Richter

Booth 2

www.gedeonrichter.com.au

Headquartered in Hungary, Gedeon Richter Plc. is an innovation-driven specialty pharmaceutical company. The activities of the Hungarian-directed multinational company are vertically integrated and involve pharmaceutical manufacturing, research and development, sales and marketing. Gedeon Richter's goal is to help patients with innovative products to improve the quality of human life.

Getz Healthcare**Booth 1**www.getzhealthcare.com

Getz Healthcare has represented the Lunar brand for over thirty years. Partnering with the manufacturer, GE Healthcare, Getz offers advanced DEXA solutions including Prodigy and iDXA for use in clinical and research applications. To support our customers we provide comprehensive sales, applications and technical support across Australia and New Zealand.

Hologic**Booth 4**www.hologic.com

Hologic's purpose is to empower people to live healthier lives everywhere, every day. This is achieved by bringing The Science of Sure® to life. As a leading innovator and champion for women's health, Hologic helps healthcare professionals around the world diagnose and treat their patients with precision, certainty, and confidence. With ground-breaking technology at the core, Hologic innovations across breast & skeletal health, diagnostic solutions and GYN surgical solutions are designed to achieve exceptional clinical results, making it possible to detect, diagnose and treat illnesses and other health conditions earlier and more effectively.

Jared Coolwell Art**Booth 10**www.facebook.com/jaredcoolwellaboriginalart

Jared Coolwell is displaying some of his artwork within the exhibition at the ANZBMS MEPSA – ANZORS Conference. Feel free to make contact with Jared if you are interested in purchasing some of his artwork.

Materialise**Booth 3**www.materialise.com/en/medical

Materialise Medical, which has pioneered many of the leading medical applications of 3D printing, enables researchers, engineers and clinicians to revolutionize innovative patient-specific treatment that helps improve and save lives. Materialise Medical's open and flexible platform of software and services, Materialise Mimics, forms the foundation of certified Medical 3D printing, in clinical as well as research environments, offering virtual planning software tools, 3D-printed anatomical models, and patient-specific surgical guides and implants.

Theramex**Booth 5**www.theramex.com.au

Theramex Australia is a specialty pharmaceutical company solely committed to supporting the health needs of women. By working closely with our partners and healthcare professionals, Theramex Australia provides a diverse portfolio of treatments that help women through life's stages. Our key therapy areas, Osteoporosis, Menopause, Contraception and Overactive Bladder.

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