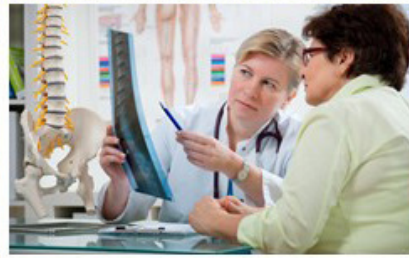


ANZBMS

ANNUAL REPORT

2019



**AUSTRALIAN AND NEW ZEALAND
BONE AND MINERAL SOCIETY**

Aims & Goals

The aims and goals of the Society are to:

- act as the principal professional body for scientists and clinicians involved in research and management of patients in the field of metabolic bone disease and mineral metabolism in Australia and New Zealand;
- act as the premier forum for the presentation of research and debate about clinical bone disease in Australia and New Zealand; and
- advance the education of clinicians, allied health professionals, and the public in the nature of and management of diseases affecting the skeleton.

PRESIDENT'S REPORT

This is my second and final year as President of ANZBMS. I continue to be impressed by the incredible work undertaken by members of ANZBMS – by the passion and enthusiasm, the hard work and the dedication shown by everyone as we work toward discovering how the skeleton works and providing better treatments for patients with skeletal disease. Our members continue to produce some of the highest quality, most innovative and impactful research in the global community. Whilst this is often recognised outside of Australia, it is not always clear that this is seen at home. This does mean we need to work together to raise the profile of our field and to support each other and the community we are part of. With this in mind, this year has seen us continue to develop a number of areas and to undertake a survey of the views of the ANZBMS community to help plan the future:

The ANZBMS Engagement Survey

One hundred members took part in the survey. There was good representation from very junior members to the most senior members. Most joined the Society to attend ANZBMS meetings. The majority of members (73%) are fairly or very satisfied with ANZBMS. Some of the highlights include the feeling that the Society provides good support for the development of early career researchers, we organise high quality meetings and they provide good opportunities

for basic and clinical scientists to interact. Where we do less well is our role in shaping research and health policy and supporting engagement with clinicians. Whilst there is good support for how we are organised we need to continue to strive to see greater engagement and participation from the clinical community, to foster greater diversity and inclusivity and to better utilise social media in our communication strategy. The survey results will certainly help inform decisions going forward. I want to thank members for all of their valuable comments.

Early Career Investigator Engagement

Support for the early career investigators (ECI) has been a priority in recent years. This has been acknowledged in the survey. Under the leadership of Sabashini Ramchand and Josh Lewis we have seen the early career investigator committee (ECIC) continue to develop. The committee has developed a robust method of working, engaging widely with the ECI community and ANZBMS members as a whole. The committee have developed robust governance processes, which has seen Josh Lewis rotate off the committee and Ayse Zengin come in as co-chair. I want to thank Josh for the key role he has played in helping establish the ECIC and to Sabs and Ayse for taking the ECIC forward. The recent rotation of ECIC membership has seen a number of new members

join the committee. This is bringing new ideas forward and giving ECIs great experience. Sabs and Ayse continue to attend Council meetings where they represent the interests of the ECIC. The ECIC also plays an increasingly important key role in the annual scientific meetings which are very apparent at the Darwin meeting. I am proud of the progress made by the ECIC, their passion and professionalism. They should be commended on their achievements.

Meetings

The introduction of the Meetings Committee three years ago has seen real rewards. This has been chaired by Natalie Sims as President-Elect and is more proactive than we may have been in the past. We have a rotating model for chairs of the program organising committee (POC), with both basic and clinical scientists co-chairing for 2 years, which allows us to retain corporate memory. The POC has been chaired by Rachel Davey and Rory Clifton-Bligh, and supported by Julia Kuliwaba as chair of the local organising committee. They have done an excellent job with the 2019 meeting. Rachel and Rory are both stepping down and new POC chairs are being sought for 2020 and 2021. I want to thank them for all their hard work over the last two years. The new chairs of the POC will be announced shortly by Natalie. Mark Cooper has also organised a highly successful one day clinical meeting in September. Mark tested a 'user pay' model rather than seek

sponsorship from industry. I am pleased to say that this worked very well and may prove to be the model for the future.

Our Committees and Improving Communications

Council continues to recognise the importance of improving communication. Council is supported by a number of subcommittees which help Council by leading specific activities. These committees have rotating membership and chairpersons, and help with communication and engagement. The Clinical and Training Affairs Committee and Therapeutics Committee are chaired by Graham Elder and Richard Prince, respectively. The Therapeutics Committee has been particularly proactive under Richard's leadership. Our Research Committee is led by Paul Baldock who steps down at this meeting. I want to thank Paul for all he has done over the last 4 years. We also have a Communications Committee, chaired by Paul Anderson, that has overseen development of the website. The next step in the evolution of a more contemporary communication strategy will be to leverage the opportunities afforded by social media. With this in mind, Council is looking to see expansion of the Communications Committee. We would welcome members volunteering to play a role on this committee. I do want to acknowledge all of the hard work

of the chairs of our sub-committees and the work of committee members. This is very much appreciated.

I want to finish by acknowledging the hard work of members of ANZBMS council and Ivone and Melissa for their work in supporting the day to day running of the society. This is very much appreciated. Rob Daly and Emma Duncan are both stepping down from Council this year and I want to thank them for their incredible contribution to ANZBMS and the advice they have given me over recent years. They will be replaced by Rachel Davey and Gustavo Duque who I am sure will do a great job. Finally, I want to thank Natalie Sims for all her help, advice and wise counsel as President-Elect. I now hand over to Natalie as the next President of ANZBMS. I know Natalie will do a wonderful job and the Society is in excellent hands. I wish Natalie every success in the role.

Finally, as I step down as President I want to say that I have really enjoyed my time as ANZBMS President. ANZBMS is a wonderful community and organisation that we should be proud to be part of. From a personal perspective representing the Australian and New Zealand bone and mineral community has been real honour – something I could not have imagined being invited to do when I moved to Australia eight years ago!



Peter Croucher

TREASURER'S REPORT

General Financial Results

2019 Member's funds = \$934,861
2018 Member's funds = \$1,030,237

The Society remains in sound but cautious financial position with considerable funds conservatively invested. Members Funds have declined in successive years reflecting increased ASM expenses coupled with small returns on invested Members Funds and decreasing revenue from meetings. Membership subscriptions have increased marginally.

Current external support remains down considerably on previous years and will likely remain at reduced levels for the foreseeable future.

Overall Loss

\$95,376 Loss (2018= \$12,549 Loss, 2017= \$64,440 Loss)

Following Australian accounting standards the Auditor assigns ASM revenues to the year received, and expenditure to the year when committed.

Consequently, the gross income and gross expenditure in respect of each ASM will be reflected in the profit and loss account, as they occur, rather than simply recognizing a 'net profit' of each individual meeting.

Investments (as at October 2019)

COMMONWEALTH BANK

Balance in Premium
Business Cheque Account
\$71,912.29
Balance in Business online saver
\$714.19

BOQ SPECIALIST

Invested on: 3 October 2019
Maturity date: 3 January 2019
Interest rate is 1.60% p.a.
(Compounded at maturity)
\$307,860.90

Invested on: 3 October 2019
Maturity date: 3 January 2019
Interest rate is 1.60% p.a.
(Compounded at maturity)
\$147,640.92

RURAL BANK TERM DEPOSIT

Invested on: 28 August 2019
Maturity date: 28 November 2019
Interest rate is 1.75% p.a.
(Compounded at maturity)
\$388,619.61

TOTAL ACCUMULATED FUND \$916,747.91

We continue to exercise a conservative investment approach, although this strategy will be subject to review in 2018/19. Term deposits are at ~1.75%, which yielded \$19,928 in 2018-2019 with this income decreasing over (2017-2018 \$22,520) reflecting declining interest rates (2018, 2.1%) and cash reserves. The Society takes the stewardship of Members Funds very seriously

and accordingly has adopted an extremely low risk approach.

Expenses

Our society expenses increased for 2018-2019 period:

Meetings- \$356,032 (\$318,013 = ASM 2018 Conference \$249,098.95 + seed fund prepayments (\$66,833.7) for Clare Valley, 2019 and 2020 meetings; ANZBMS GAP Fellowship (\$25,205); Densitometry Meetings (\$51,319)

Awards- \$39,544= Travel grant (\$12,150), Christine & T Jack Martin Research Travel Grant (\$18,393), Amgen-ANZBMS Outstanding Abstract award (x2, \$1,000 each), Roger Melick (\$1000) and Chris & Margie Nordin Young Investigator Awards (\$1000), Sol Posen Award (\$1,000), ANZBMS Clinical Research Excellence Award (\$1000), ANZBMS International Travel (\$2000).

Office- ~\$87,725 (Rent + salaries + office expenses etc)
Audit/Accounting- \$4,940

Income

Sponsorship- \$20,000 (\$24,000, 2018)
 ANZBMS satellite meetings (Densitometry courses)- \$75,783 (2018=\$92,914)
 Subscriptions- \$51,684 (2018=\$39,874)
 Interest from term deposits - \$19,928 (2018=\$22,520)
 Membership and subscriptions have increased over the last year (\$51,684; 2019; \$39,874 2018) thanks to the hard work of Ivone Johnson.

The Society should also acknowledge the excellent contributions of the 2019 ASM POC, in particular to Rachel Davey and Rory Clifton-Bligh and to Nick Pocock for overseeing the Densitometry Courses.

Future directions

For 2018-2019 we encountered a third consecutive period of downturn in overall profits (~\$95,000 2019; ~\$12,000; 2018; \$64,400 in 2017). This is attributed to higher ASM meeting expenses (\$249,098, 2018; \$212,994, 2017) and prepayments (for 2019 and 2020 ASMs), reduced income from Densitometry Courses and honouring fiscal pledges to the Clare Valley Meeting (\$16,500) and Osteoporosis Australia (\$5000, top-up for Amgen-OA ANZBMS Grants). The sustainability of these schemes will again be closely reviewed for the 2019/20 period pending profit outcomes of the

2019 ASM (projected 2019 profit ~\$20,000). The Society continues to invest its prior year surpluses back to the membership in grants and densitometry courses in accordance with the Society's objectives.

For 2019/20, our standard outgoings are projected to be similar. Alternative investment strategies (e.g. Managed Funds) will be explored. The operating costs, venues and registration fees for future meetings will be carefully reviewed considering the current fiscal climate.

I would like to offer my thanks to members of the Finance Committee, Ivone Johnson and Melissa Dupavillion who have provided excellent guidance and support to me and Rod Laws of Tinworth & Co Chartered Accounts for overseeing the accounts.



**Associate Professor
Nathan Pavlos**

RECOGNITION OF ANZBMS MEMBERS

MEMBERS PASSING



VALE

Professor Howard Morris PhD, FAACB, FFSc (RCPA).

It is with deep sadness we acknowledge the unexpected and untimely death of our colleague and friend Professor Howard Morris.

Howard was participating in a visiting lecture tour representing the International Federation of Clinical Chemistry (IFCC) at a clinical biochemistry conference in Kazakhstan at the time of his passing.

Professor Morris was an accomplished medical scientist, educator and administrator. He was an ANZBMS member for many years (including a council member 1997-1999) and regularly attended meetings. He received the Career Achievement Award from ANZBMS in 2015.

In 1982 Howard joined the Division of Clinical Biochemistry, at the Institute of Medical and Veterinary Science (now SA Pathology) in charge of the Endocrine Laboratory. As a Clinical Scientist, he had 30 years of experience working in diagnostic clinical biochemistry in the field of immunoassay and endocrinology including management of a major clinical endocrinology laboratory.

In recent years Howard concentrated most of his efforts on furthering international focus on quality of the complete test cycle from sample collection to patient outcome. He

was able to articulate his message through various roles he has had within the IFCC.

Howard brought to Adelaide research skills that he honed during his PhD studies at Sydney University and during his post-doctoral years in St Louis, USA and Brisbane. He was a major contributor to metabolic bone disease research in Adelaide and along with Professors Chris Nordin and Allan Need focussed on detailed characterisation of the patient in order to individualise treatment.

Over the next 30 years Howard made major contributions to the development of laboratory models used to advance research into metabolic bone disease such as the commonly used ovariectomy-induced bone loss model for post-menopausal osteoporosis. He was also recognised internationally as an authority on the role of vitamin D in determining bone health. Howard's work led to the publication of more than 280 scientific and clinical papers and edited books on metabolic bone disease. He was recognised internationally for his contributions to bone and mineral research and education when invited to deliver the Louis V Avioli Memorial Lecture at the American Society for Bone and Mineral Research Annual Meeting in 2009.

Howard made major contributions to science and medical administration.

He was the current President of IFCC, the first Australian appointee to this important role. Between 2012 and 2014 he served as IFCC Vice-president; between 2003 and 2008 he was the Secretary of the Scientific Division of the IFCC; served as Chair the IFCC-International Osteoporosis Foundation Joint Working Group on Standardization of Bone Turnover Markers (2012-2017); member of the IFCC Task Forces on the Global Campaign on Diabetes Mellitus (2003- 2008) and on International Clinical Liaison (2009-2011). Within the Asia Pacific Federation of Clinical Biochemistry (APFCB) he served as Chair, Scientific Committee (2002-2004) and Chair, Scientific Organising Committee, Member Organising Committee for the 10th Asian Pacific Congress of Clinical Biochemistry (2002-2005). He was the Australasian Association of Clinical Biochemists (AACB) representative to the Councils of the IFCC and APFCB (1998-2004), served on AACB Council (1998-2002) and Editor of the Clinical Biochemist Reviews (1994-2002). He was awarded an AACB Outstanding Service Medallion (2003) and the W. Roman Travelling Lectureship (2004). Between 2003 and 2009 he was the Director of the Hanson Institute which administered infrastructure to support the research of some 300 staff and 100 postgraduate students.

Howard was a passionate educator as a Professor of Medical Science

in the School of Pharmacy and Medical Science, University of South Australia and affiliate title-holder at the University of Adelaide. Howard supervised and mentored numerous local and international honours, Masters and PhD students, with many students going on to successful careers in research and the health sector. Howard also contributed to the programs of undergraduate teaching at UniSA and the University of Adelaide. Howard was always available to staff and students to help them understand challenging physiology and pathology concepts and to discuss issues relating to quality in the pathology laboratory.

While many of us enjoyed discussing science with Howard it may be his demeanour that is remembered by most. His relentless optimism and good humour was a huge support to others looking for encouragement. Howard was intelligent, informed, broadly interested in things and loved stimulating conversation. He was encouraging, energetic, hard-working, and had high standards. He had a larger-than-life sense of humour- not many who worked with Howard would have failed to hear his infectious and frequent laugh.

Howard took up sailing when he was in his forties, and like all things that Howard did, he attacked the challenge, determined to become the best he could be at the task at

hand – to focus on the destination; not be put off by the challenges presented by weather and unpredicted obstacles; work with the conditions; reset your bearings and continue to your destination. That character was in Howard's nature.

Above all, he was a gentleman and a professional in all that he did.

We extend our deep sympathies to Howard's partner, Helen Martin, his daughter Lisa and to his family.

Peter O'Loughlin, Paul Anderson and David Findlay

THERAPEUTICS COMMITTEE REPORT

Tania Winzenberg and Emma Duncan tendered their resignations that were accepted with regret. New members Grahame Elder and Alan Doube were welcomed to the committee.

Current members are:

- Richard Prince (Adult Endocrinology Perth)
- Sabashini Ramchand (Post graduate Student Boston)
- Peter Sim (Paediatric Endocrinology Melbourne)
- Craig Munns (Paediatric Endocrinology Sydney)
- Nick Pocock (Nuclear Medicine Sydney)
- Belinda Beck (Exercise Science Gold Coast)
- Fran Milat (Adult Endocrinology Melbourne)
- Grahame Elder (Nephrology Sydney)
- Alan Doube (Rheumatology Hamilton)

The new TOR approved by Council in 2018, available on the ANZBMS website, has provided a template for Committee functioning. In particular most members are within their six year appointed time. The next meeting will be 29 October, 10 months after the last meeting.

Therapeutics Guidelines update

ANZBMS contributed to a new Therapeutics Guidelines update published in 2019. It is now available at an individual cost of \$378. Council may wish to consider negotiating a reduced cost for ANZBMS members.

Optimising bone health in women with breast cancer on endocrine therapy

In addition to the Clin Endo position accessible via the website, the position statement has been published in the MJA Med J Aust 2019; 211 (5): 224-229. || doi: 10.5694/mja2.50280. A request for a link on the ANZBMS web site is planned.

Investigating further actions to progress evidence into practise including actions from Bone Density Committee (MBS) and Therapeutics Committee (manufacturers) has not progressed.

Romosozumab

Amgen reported the following information to the Committee on 23 Aug 2019 "At this meeting, the PBAC decided not to reimburse EVENITY (romosozumab) on the Pharmaceutical Benefit Scheme (PBS) for the treatment of osteoporosis in post-menopausal women at high risk of fracture, and for men with osteoporosis at high risk of fracture. Amgen is currently reviewing the feedback received from the PBAC and assessing the next steps for EVENITY in Australia."

A subcommittee lead by Dr Peter Sim is considering guidelines for Burosomab the new FGF 23 monoclonal antibody for the management of hypophosphatemic rickets.

Thanks to the support of the Program Organising Committee, the suggestion of a 2019 Therapeutic session at the AGM to update members on has been actioned. The topics are:

- The management of non-metastatic bone disease in women on long term therapy for breast cancer
- Burosomab for hypophosphatemic rickets
- Romosozumab for osteoporosis

The plans produce ANZBMS member's guidelines for therapeutic interventions are progressing slowly.



Richard Prince

RESEARCH COMMITTEE REPORT

Chair: Paul Baldock

Committee: Natalie Sims, Jacqueline Center, Dorit Naot, Sharon Brennan, Jiake Xu, David Findlay; Mark Forwood

It is particularly important to me to thank all of the Research Subcommittee members for their contributions and support, given that I am stepping away from my position as Head of the Scientific Committee. Their thoughtful and timely responses have always made my job much easier, and their spirit of generosity spreads from the giving of their time, to the principals that guide the allocation of these critical funds.

In moving forward with the Committee, I would suggest that the composition needs to be adjusted to include greater clinical perspective, particularly as the composition of applicants appears to be increasingly biased toward that sphere of musculoskeletal research.

The workload regarding prizes (most notably at the ASM) is considerable, with the potential to have an individual responsible for administration of such activities, freeing the Head of Committee for more strategic activities, at this important stage in research.

Submission to the Australian and New Zealand Standard Research Classification (ANZSRC)

- A submission was made to ANZSRC regarding issues with Fields of Research codes (attached to email).
- A letter was sent early June 2019, as a follow –on form reports in 2010 and 2014. Special Mention to Natalie Sims, Allison Pettit and David Findlay for their role in assisting with this submission.
- The need for appropriate and consolidated representation of musculoskeletal research was highlighted.
- The lack of which denied proper review and reporting of research endeavour across the field, with subsequent issues regarding funding allocation.
- A revised format was included for a specific FoR for Musculoskeletal research.

Annual Scientific Conference/ Awards

ASM: The committee contributed to scoring of abstracts, and conferred as to the appropriateness of awards allocated based upon these scores. Additionally, applications for the Sol Posen, Kaye Ibbertson and Christine and T Jack Martin Travel Awards were judged.



Paul Baldock

CLINICAL PRACTICE COMMITTEE REPORT

The role of the Clinical Practice Committee is to engage with other Scientific Societies, NGOs and Professional Colleges sharing a similar interest in promoting high quality research, strong scholarship and professional development in areas directly or to some extent associated with musculoskeletal diseases.

Current membership

- Grahame Elder (Chair)
g.elder@garvan.org.au
- Emma Duncan (past president)
emma.duncan@qut.edu.au
- Peter Croucher (president)
p.croucher@garvan.org.au
- Natalie Sims (incoming president)
nsims@svi.edu.au
- Gustavo Duque (previous committee chair)
gustavo.duque@unimelb.edu.au

New members

- David Kim
david.kim@waitematadhb.govt.nz
- Jacqueline Center
j.center@garvan.org.au
- Cherie Chiang
cherie@cheriechiang.com

Matters arising over the past year and plans for 2020.

Prof Gustavo Duque has remained as the ANZBMS representative to the Adult Medicine Division of the RACP. The aim of his involvement is to liaise with the College regarding the education, training and career paths of Fellows and Trainees and to provide advice on policy and advocacy.

The committee has responded to the Department of Health in relation to MBS guidelines for services provided by specialist or consultant physicians by members of the society.

The committee is working with the Therapeutics Committee regarding applications to the TGA for new anabolic agents, and drugs for the management of hypophosphataemic rickets and in the management of patients with breast cancer.

The committee aims to support osteoporosis re-fracture prevention initiatives. The ANZBMS has previously supported the work of the SOS fracture alliance. Prof Seibel reports that the Alliance has finished its research project with the Sax Institute and an integrated model for secondary fracture prevention has been submitted to federal, state and shadow health ministers. The Alliance has grown to 37 member organisations with a cumulative individual membership of over 3.1 million Australians. Over the coming year, the committee will actively support programs in both Australia and New Zealand. Members of the ANZBMS served on the earlier ASBMR workgroup to develop a Secondary Fracture Prevention Action Plan. Consensus Recommendations were published in J Bone Miner Res September 2019 for improving care within and outside the US. The committee will review the recommendations and liaise with local stakeholders and with the ASBMR.

The committee will liaise with the ASBMR and the ECTS regarding opportunities for early career investigator exchanges. With the education committee, we will support BPT and AT training in bone. The committee will engage with the Royal Australian College of General Practitioners to improve GP awareness of osteoporosis management, including through Health Pathways, the RACGP Expert Committee on Research and the Australasian Association of Academic Primary Care.

We have responded to requests for endorsement of policy from other groups such as the Health Coalition Aotearoa. The committee will engage with other societies in the area of musculoskeletal disease and bone biology. In accordance with Medicines Australia Codes of Conduct Guidelines, the committee will discuss improved sponsorship of research and educational activities.



Grahame Elder

PROGRAMME ORGANISING COMMITTEE REPORT

The ANZBMS POC (Rachel Davey, Co-Chair; Rory Clifton-Bligh, Co-Chair; David Findlay, Christian Girgis, Brya Matthews and Joshua Lewis) have worked together to create what we hope will be an exciting and engaging program for this year's meeting in Darwin. The final program offers a variety of innovative science, with a balance of basic, clinical and translational research. We are delighted that 266 delegates have registered for this year's ANZBMS meeting located for the first time in Darwin.

We are very fortunate to have FOUR prestigious international speakers including Melissa Kacena (USA), Bente Langdahl (Denmark), Yuuki Imai (Japan) and Martina Rauner (Germany). Martina Kacena is the inaugural invited speaker of the ANZBMS/ECTS Academy early career investigator invited presentation exchange program, a joint initiative of the ANZBMS ECIC and the ECTS Academy. The aim of this initiative is to promote the international profile of early career investigators of the ANZBMS and ECTS. In addition, we have 20 invited speakers from Australia and New Zealand and from the 140 abstracts that were submitted, 40 were accepted for oral presentations, with 20 plenary posters and 82 regular posters. In response to feedback from last year, this year we have introduced a mini-oral session for the ten Christopher and Margie Nordin Young Investigator Poster Prize award finalists into the program.

Another innovation, suggested by Richard Prince (chair, ANZBMS Therapeutics committee) and prompted by feedback from last year to strengthen clinician engagement, we have included a Therapeutics breakfast session providing the latest updates on treatments for osteoporosis and other metabolic bone conditions. We have continued to strengthen existing links with other societies, with a co-badged symposia with the Australian and New Zealand Society for Sarcopenia and Frailty Research (ANZSSFR) with 3 invited speakers presenting their research on muscle and bone interactions from a basic, clinical and translational science perspective as well as 4 oral presentations from ANZSSFR members.

The ANZBMS Early Career Investigator Committee have again organised three exciting events for this year's meeting, a clinical case dinner session, a networking event and a career development seminar focussed on grant writing and manuscript reviews. Although the absence of concurrent sessions makes for a full program, we hope this provides delegates with the opportunity to maximise their experience at the meeting. There is also plenty of opportunity for networking and discussion where delegates can experience the lively harbour city of Darwin.

We are very grateful for the generous support from industry, our platinum sponsor Amgen, our gold

sponsor Kyowa Kirin, our destination sponsor Northern Territory Business Events, and our exhibitors MedKom, Thomson Scientific Instruments and Hologic, who without their support, this meeting would not be possible.

We would like to thank all the members of the ANZBMS POC for their outstanding contributions, the 8 society members who reviewed abstracts within a tight schedule, the session chairs, all members of the LOC, Ivone Johnson, the team from ASN events, particularly Jim Fawcett for his tireless organisation of all aspects of the meeting, and all others who have contributed to the meeting.



Rachel Davey, Rory Clifton-Bligh

ANZBMS ADVANCED CLINICAL POSTGRADUATE MEETING

The Australian and New Zealand Bone and Mineral Society Advanced Clinical Postgraduate Meeting 2019 was held on Saturday 14 September 2019 at the Medical Education Centre, Concord Hospital, Sydney, NSW.

The meeting is targeted at Specialists training in the management of bone and mineral diseases. It would be suitable for trainees in numerous disciplines including endocrinology, rheumatology, rehabilitation and geriatric medicine, orthopaedic surgery as well as general medicine.



Professor Mark Cooper

DENSITOMETRY SUB-COMMITTEE REPORT

ANZBMS TRAINING COURSE

The courses in Sydney in April and Brisbane were very successful with over 70 and 40 registrants respectively. The next course is due to run in Sydney in March 2020.

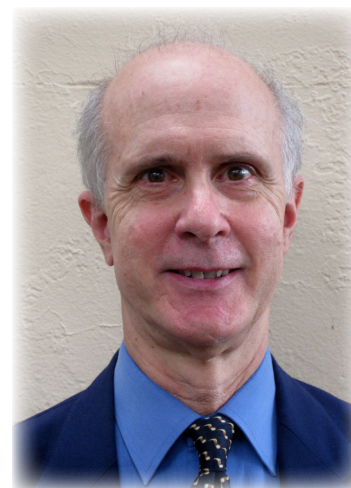
The number of registrations from Endocrine registrants decreased in the recent Brisbane course as a consequence of the more doctor tailored one day course run at Concord Hospital 14 September 2019 (Convenor Professor Mark Cooper).

South Australia Radiation Licencing

Recently, the South Australian radiation regulatory body changed their licensing requirements so that all applicants for a radiation license for SA have to sit a specific local licensing exam. They no longer recognize external courses, including the ANZBMS course, as satisfactory for SA licensing meeting. As this decision has implications apart than DXA, it is causing wider concern and is already being addressed by other avenues of medical imaging. No further action is required by ANZBMS at this stage.

The matter of Capital Sensitivity for DXA scanners in relation to Medicare rebates was raised in 2018. No decision has been taken. Awaiting advice of Council. Low priority.

The concept of publishing the material from the Densitometry Course in an online 'book' has been raised by the Committee. Advice sought from Council re proposal / manpower and resources.



**Associate Professor
Nicholas Pocock**

EARLY CAREER INVESTIGATOR COMMITTEE REPORT

2018-2019 ECIC Committee

Co-Chairs

Dr Sabashini Ramchand and Dr Ayse Zengin

Members

Dr Ashika Chhana, Mr Marc Sim, Mr Alexander Rodriguez, Dr Joshua Lewis, Dr Renee Ormsby, Dr Eleanor Thong, Dr Jasna Aleksova, Dr Laura Laslett, Dr Melissa Cantley.

New ANZBMS ECIC members

14 applications for 5 positions- 9 from Victoria, 2 from Tasmania, 2 from Queensland and 1 from South Australia. Each candidate provided their resume and a statement of why they wanted to join the ECIC and their goals for the committee. This was circulated to all members of the ECIC for review. An anonymous voting poll was set up and each ECIC member was given the opportunity to rank their top 6 candidates. Eight of our eleven members voted during the time allocated for this process. The top 5 candidates selected were put forward and endorsed by Prof Peter Croucher and Prof Natalie Sims as new members of the ECIC. We would like to thank all applicants for their interest in the ECIC and warmly welcome our new ECIC members:

- Dr. Alicia Jones
- Dr. John Kemp
- Ms. Natalie Hyde
- Dr. Sarah Hosking
- Dr. Victoria Leitch

ECIC Objectives

Objective 1

To act in collaboration with the ANZBMS senior committee and foster active engagement of early career investigators within the ANZBMS.

The ANZBMS and the ANZBMS ECIC have been actively working to increase the engagement of ECIs within the Society. Similar to the 2018 ASM, early career investigators have been given the opportunity to co-chair sessions with senior members at this year's ASM. We will also continue to encourage ECIs to ask questions during sessions. The number of ECIs involved in various ANZBMS sub-committees is increasing and we continue to actively encourage this. The ECIC co-chairs also attend Council meetings as ex-officio members. The past co-chair of the ECIC acts as the ECIC representative on the ANZBMS Program Organising Committee and assists in developing the scientific program for the ASM in conjunction with the ECIC.

Objective 2

To promote activities that engage early career investigators and senior members in open dialogue and collaborative initiatives.

We continue to host the popular **Bones and Brews ASM Networking Event**. This year, we drew on feedback we received from the last 2 years and actively worked towards increasing interaction across states and between our ECIs and senior researchers.

Objective 3

To increase early career investigator awareness of research trends and application of new technologies in bone and mineral research.

Objective 4

To increase engagement of clinical trainees and improve training in bone and mineral metabolism.

Clinical Cases in Metabolic Bone Disease Seminar: The event aim is to increase engagement of clinical advanced trainees and improve training in bone and mineral metabolism. Advanced trainees were invited to submit a clinical case for oral presentation. The top 6, determined by an independent judging panel blinded to author and institution, were selected for presentation and a winner adjudicated by 3 judges (A/Prof Frances Milat, Prof Grahame Elder, and Prof Charles Inderjeeth). The prize for this event is ANZBMS membership registration for 1 year, fee exemption if accepted for publication in JBMR Plus (courtesy of Prof. Peter Ebeling). Those not selected for oral presentation were given the opportunity to present their case/s as poster presentations. 78 registered delegates as of 14th October 2019 (2-fold increase compared to 2018).

RACP Webinar Series: We submitted a successful application to the Royal Australasian College of Physicians (RACP) to host a webinar series in metabolic bone health to RACP advanced trainees. This webinar is part of the Specialty Society Webinar

Service pilot that is being undertaken by the RACP in partnership with its affiliated specialty societies. The four lectures of this series will be delivered by Professor Ego Seeman, Dr. Cherie Chiang, Prof Jaqueline Center, and Prof Louise Maple Brown.

Objective 5

Involvement in scientific and social programs at the ANZBMS Annual Scientific Meeting.

In addition to the events outlined above, the ECIC have also developed the following:

Career Development Symposium:

Title: Grant Writing and Manuscript Reviews – “Lessons from the real world”.

Summary: The topic of this year’s symposium was based on feedback from the 2018 ASM. The symposium is designed to be interactive and will be held in 2 parts:

1. Grant Writing. Speakers: Prof Louise Maple Brown, Dr Joshua Lewis
2. Manuscript Reviews: Prof Emma Duncan (guidelines), Prof Tuan Nguyen (statistical pitfalls in reviewing manuscripts)

Bridging Overseas Networking and Exchange Program - B.O.N.E Program

Summary:

- Initiative to address the lack of opportunity and funds for invited presentations for early career investigators. We envisage that this scheme will boost ANZBMS ECIs track records relative to other fields, increase exposure for ECIs, provide

travel support and build international links between investigators. The ANZBMS will also stand to gain as this initiative allows high quality presentations at the ASM at a cheaper cost than it would be to invite an international delegate.

- Collaborating society for 2019: ECTS
- ECTS member invited to ANZBMS ASM: Martina Rauner (selected by ANZBMS POC from a list of 5 candidates provided by ECTS).
- ANZBMS speaker selected to attend the ECTS Congress: Michele McDonald
- Amount: 1 x AUD 2500 (flights, accommodation) and waived registration and social events
- We held a breakfast attended by the ECIC and Martina Rauner to formally welcome her to ASN.

Objective 6

To foster science communication and engagement with the public.

ANZBMS Website: We have developed an ECI section on the ANZBMS website. This includes pages on the role of the ECIC and its members, ECI news, calendar, awards, grants, scholarships and resources.

ANZBMS Quarterly ECI Newsletter:

The aim of the newsletter is to create a sense of community among the Society’s ECIs, highlight their work and disseminate information. The first issue has been successfully completed and will be launched at this year’s ASM, approved by Paul Anderson, Chair – Communications Committee. One issue will be printed per year and

included in ASM conference satchels. All other issues will be distributed electronically to all ANZBMS members and will be uploaded on the ECIC website.

Social Media: We use twitter as our social media platform to keep ECIs informed of upcoming national and international events, conferences, awards and other information that may be of relevance.

This year the ECIC hosted their first Town Hall meeting. We met with the Society’s ECIs to formally introduce the Ecommittee and discuss current and future initiatives. We would like to thank all members of the ECIC for their contributions and support in 2019: <https://www.anzbms.org.au/eci-committee.asp>



Sabashini Ramchand and Ayse Zengin
ECIC Co-chairs

ANZBMS HIGHLIGHTS GALLERY

EARLY CAREER INVESTIGATOR COMMITTEE SEMINAR



ANNUAL SCIENTIFIC MEETING



ANZBMS 2019 AWARD WINNERS

ANZBMS KAYE IBBERTSON AWARD FOR BONE AND MINERAL MEDICINE

FRAN MILAT
MONASH HEALTH



CHRISTINE AND TJ MARTIN TRAVEL GRANT

**SABASHINI
RAMCHAND**
AUSTIN HEALTH,
THE UNIVERSITY OF
MELBOURNE



SOL POSEN RESEARCH AWARD

KAI CHEN
THE UNIVERISTY OF
WESTERN AUSTRALIA



ROGER MELICK YOUNG INVESTIGATOR AWARD

AMY HARDING
MENZIES HEALTH
INSTITUTE
QUEENSLAND, GRIFFITH
UNIVERSITY



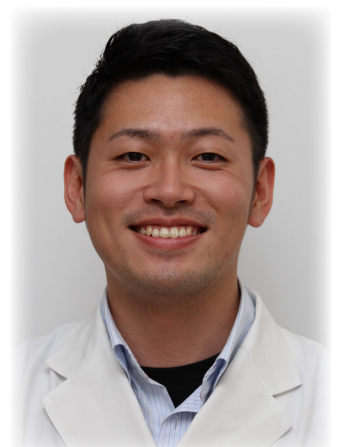
CHRISTOPHER AND MARGIE NORDIN YOUNG INVESTIGATOR POSTER AWARD

AMY RIBET
THE UNIVERSITY OF
WESTERN AUSTRALIA



HIGHEST RANKED STUDENT ABSTRACT AWARD

**KOTARO
TANIMOTO**
DEPARTMENT OF
HEMATOLOGY,
ENDOCRINOLOGY
& METABOLISM,
TOKUSHIMA
UNIVERSITY, JAPAN



**ANZBMS CLINICAL
RESEARCH
EXCELLENCE
AWARD**

**ALEXANDER
RODRIGUEZ**
MONASH UNIVERSITY



**ANZBMS CAREER
ACHIEVEMENT
AWARD**

IAN REID
UNIVERSITY OF
AUCKLAND



**AMGEN/ANZBMS
OUTSTANDING
ABSTRACT
AWARD**

KAI CHEN
THE UNIVERSITY OF
WESTERN AUSTRALIA



**AMGEN/ANZBMS
OUTSTANDING
ABSTRACT
AWARD**

ROBIN DALY
DEAKIN UNIVERSITY



**PHILIP SAMBROOK
AWARD**

**SABASHINI
RAMCHAND**
AUSTIN HEALTH,
THE UNIVERSITY OF
MELBOURNE



AWARD WINNER REPORT

ANZBMS CAREER ACHIEVEMENT AWARD

It is an enormous honour to receive this Career Achievement Award from the Society, and I am very grateful to the Council for the award, and to my nominators, Peter Ebeling and Nigel Gilchrist. I'm very sorry not to be present, one of very few ANZBMS meetings I have missed, but I am on sabbatical in the UK.

The ANZBMS came into existence at about the time that I set out on a career in bone and mineral research. I have regarded it as my home base and the platform from which my research work has been launched.

The support our group has received from senior Society members, such as Jack Martin, John Eisman and Ego Seeman has been critical to our success. This Society should pride itself on the mentors it provides, the quality of its science, and the rigour with which it conducts its affairs. This provides us, as members, with an excellent preparation for presenting work and participating in other meetings and societies.

All my research has been done as part of a team, the Auckland Bone and Joint Research Group. This entity was inspired by Kaye Ibbertson and Russell Fraser, came into existence as a trio of Tim Cundy, Jill Cornish and myself, and has subsequently been enriched by many additions, including Andrew Grey, Greg Gamble, Anne Horne, Karen Callon,

Dorit Naot, Doreen Presnall, Nicola Dalbeth and Mark Bolland. It has always been a creative, vigorous and enjoyable place to work and I thank my colleagues for that.

Once again, I am deeply grateful for this honour and look forward to many more years contributing to the academic life of this venerable Society.



Ian Reid

AWARD WINNER REPORT

PHILLIP SAMBROOK YOUNG INVESTIGATOR TRAVEL AWARD

This year, Sabashini took up an opportunity to expand on her previous research in osteoporosis therapeutics by undertaking a research fellowship with Dr Leder's lab at the Massachusetts General Hospital, Harvard University, USA.

So far, her work has involved the use of monotherapy to prevent bone loss. Here, she will evaluate the use of combination therapy and gain insights into how these therapies work together to improve skeletal integrity.

This consolidated with her knowledge in the use of bone remodelling markers and bone imaging she hopes to learn new skills such as the use of finite element analysis and bone histomorphometry.



Sabashini Ramchand

AWARD WINNER REPORT

CHRISTINE AND TJ MARTIN RESEARCH TRAVEL GRANT | 2018

Study centre visits:

1. Professor Susan Clark, The Epigenetics Laboratory, Genomics and Epigenetics Division, Garvan Institute of Medical Research.
2. Dr Lan Ho-Pham, The Bone and Muscle Research Group (BMRg) in Ton Duc Thang University Vietnam.

Conference: Attendance & Presentation

1. The American Society for Bone Mineral Research 40th Annual Meeting, Canada 2018.
2. St Vincent's Campus Research Symposium, Australia, 2018
3. IOF Regional 7th Asia-Pacific Osteoporosis Conference, Australia, Dec 2018
4. The 4th Pan Asian Biomedical Science Conference, Vietnam, 2018

I would like to acknowledge AMGEN and ANZBMS for offering me the Christine and TJ Martin Research Travel Grant for 2018. The major research I had done in my PhD project at the University of Technology, Sydney is to construct an osteogenomic profiling from genetic variant associated with low BMD, and then to use the osteogenomic profiling to develop

prognostic models for personalized prediction of fracture risk. I had also been working on the application of Machine Learning approach for predicting fracture.

This work were based on the on-going longitudinal Dubbo Osteoporosis Epidemiology Study in Australia. This travel award provided me with an opportunity to validate my work in other data, broaden my experience and skills in other labs and foster new international collaborations.

I first attended the American Society for Bone Mineral Research 40th Annual Meeting in Canada to present my research projects: "Assessing Clinical Utility of Genetic Profiling in Fracture Risk Assessment: A Decision Curve Analysis" and "Contribution of Multimorbidity to Post-Fracture Mortality: Result of a Long Term Population Based Study". During the meeting, I learnt great ideas from other presentations and had the opportunity to interact with many experts in the bone and genetics fields.

I also met Prof. Qing Wu from Nevada Institute of Personalized Medicine, University of Nevada, Las Vegas. We discussed our common interests in understanding the predictive value of osteogenomic profiling in BMD, bone loss, and fracture and how we can collaborate

to construct osteogenomic profiling for American population and use it for fracture and bone loss prediction. At the end of the meeting, Prof. Wu offered me the postdoctoral fellowship to work in his lab after my PhD graduation.

On return to Sydney, I visited the Epigenetics Laboratory, Genomics and Epigenetics Division of Professor Susan Clark in Garvan Institute of Medical Research. The Clark Lab developed high throughput sequencing tools required "to unravel the epigenome" and are now developing more sophisticated bioinformatics and capability to build and interpret reference epigenome maps of normal and diseased cells to both understand epigenome biology and address how this impacts on disease states.

I was lucky to have Dr Loi Luu as my direct supervisor, who taught me in details techniques and workflows used in whole genome bisulphite sequencing, whole genome bisulphite sequencing, and relevant bioinformatics skills for data pre-processing before variant discovery. During this time, I presented my research work at the St Vincent's Campus Research Symposium and the IOF Regional 7th Asia-Pacific Osteoporosis Conference in Australia. I have had constructive discussions to improve my research results.

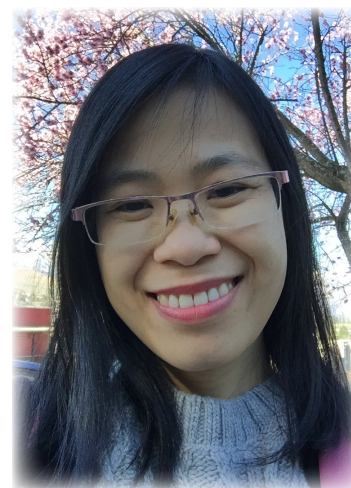
In December 2018, I had a talk about osteogenomic profile and fracture and BMD prediction at the 4th Pan Asian Biomedical Science Conference and obtained the best oral presentation award.

I later spent time at the Vietnam Osteoporosis Study lab (run by the Bone and Muscle Research Group- Ton Duc Thang University Vietnam) in April 2019 under the supervision of Dr Ho-Pham. At VOS, I had opportunity to validate the osteogenomic profile in Asian data (Vietnam Osteoporosis Study) with more than 2000 participants having both phenotype and genotype information. Using this data, I constructed osteogenomic profiling of Asian from 16SNPs associated with BMD for predicting bone loss and fracture. The SNPs were genotyped and reported as a part of the study “GWAS of bone size yields twelve loci that also affect height, BMD, osteoarthritis or fractures”, published in Nature Communications [1].

Apart from my validation project, I also collaborated with Dr Lich Pham to work on the Diseasome project and had some interesting results. We are preparing the manuscript “Network analysis of human diseases and the consequences of multimorbidity and comorbidity: the Vietnam Osteoporosis Study” to submit in the peer-reviewed journal

this year. In addition, I supported Dr Minh Doan to redesign and manage VOS’s database, following relational database standards.

In sum, I am grateful to AMGEN and ANZBMS for their support of this great travel award. It gave me a valuable opportunity to strengthen my international profile, broaden my collaborations, and acquire significantly new skills and knowledge in the analysis of high-throughput data, which ultimately help improve my research capacity of the osteoporosis research community in Australia.



Dr Thao P. Ho-Le
School of Biomedical
Engineering, The University
of Technology, Sydney

AMGEN OA-ANZBMS CLINICAL GRANT PROGRAM 2019

Study of Indigenous Bone and Muscle Ageing (SIMBA)

Minimal trauma hip fractures occur at a younger age and higher rates in Indigenous vs non Indigenous-Australians.

With lower life expectancy, age onset of bone loss is unknown in Indigenous-Australians. Data collected will inform the best “window of opportunity” regarding when to test for osteoporosis in Indigenous-Australians to reduce fracture prevalence.

This project will provide data regarding the age of osteoporosis

onset in Indigenous-Australians aged >35 years. This will enable testing for osteoporosis at the most appropriate age, accurate osteoporosis diagnosis and fracture risk assessment.

Together these will prevent fracture and enable older Indigenous-Australians to remain in community and on Country.



Dr Ayse Zengin, PhD
Research Fellow, Monash University

A new strategy to prevent fractures in Australian nursing homes

Hip fractures are devastating for older adults living in residential aged care facilities (RACF) and result in reduced quality of life, loss of mobility, and increased death rates. Considering that in Australia osteoporosis in RACF residents is underdiagnosed and undertreated, we aim to increase the identification and treatment of osteoporosis in Australian RACF.

To increase risk identification, we will develop and evaluate an electronic version (app) of the Fracture Risk Scale (FRS) to be installed in the mobile devices of GPs practising in RACF in Western Melbourne. We will go further by integrating

fracture risk Clinical Assessment Protocols (CAPs), which will be part of the admission process and will provide recommendations tailored for specific RACF residents. These recommendations will help care providers understand fracture risk and guide them in giving the appropriate treatments and using strategies demonstrated to prevent fractures.

These recommendations will help care providers understand fracture risk, and guide them in giving the appropriate treatments and using strategies demonstrated to prevent fractures



Professor Gustavo Duque MD, PhD, FRACP, FGSA
Chair of Medicine and Director of AIMSS, The University of Melbourne

OSTEOPOROSIS AUSTRALIA POSITION STATEMENT

STATEMENT ON THE MANAGEMENT OF OSTEOPOROSIS 2019

Click on the link to the Position statement for the Management of Osteoporosis.

<https://www.anzbms.org.au/policies.asp>

Many ANZBMS members including the Therapeutics committee were involved in drafting this statement. This position statement provides an expert opinion-based guidance for Osteoporosis management, complimenting the current 2017 RACGP/OA guidelines.

2019 RACP WEBINAR

Please find the link below to the recording that has now been published on the College website. Only fellows of the college can access the webinar.

<https://www.racp.edu.au/fellows/resources/specialty-society-webinar-series/specialty-society-webinars/australian-diabetes-society-australian-and-new-zealand-bone-and-mineral-society-and-endocrine-society-of-australia-webinars>

FUTURE MEETINGS

THE **11TH**
Clare Valley
BONE MEETING
IN CONJUNCTION WITH ANZBMS

 ANZBMS CLAREVALLEYBONEMEETING.COM.AU **CLARE CONVENTION CENTRE**
SOUTH AUSTRALIA **28 FEB - 2 MAR 2020**

ANZBMS - MEPSA - VITAMIN D WORKSHOP 2020

Joint Scientific Meetings of the Australian and New Zealand Bone and Mineral Society, The Molecular and Experimental Pathology Society of Australasia and the Vitamin D Workshop



ANZBMS

MEPSA



GOLD COAST CONVENTION & EXHIBITION CENTRE

17TH - 20TH AUGUST
SAVE THE DATE!

www.anzbms-mepsa-vdw2020.org

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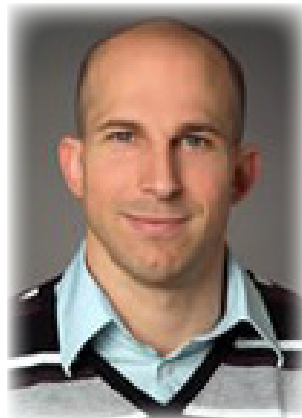
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