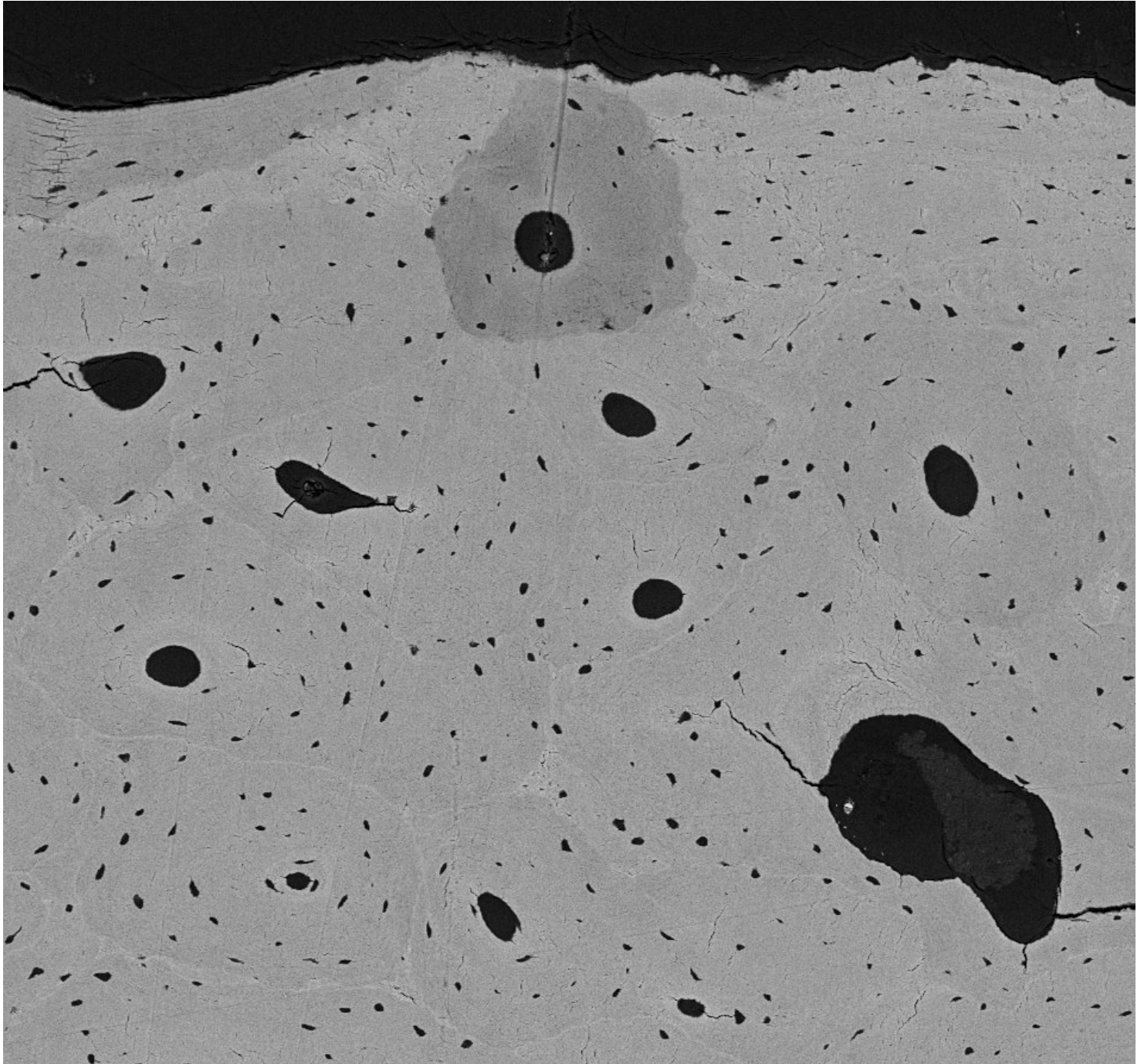


ANZBMS Newsletter

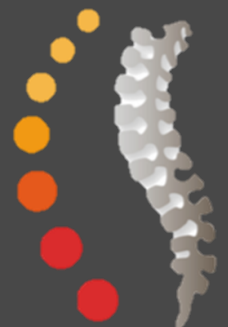


ANZBMS ECI Report and Spotlight

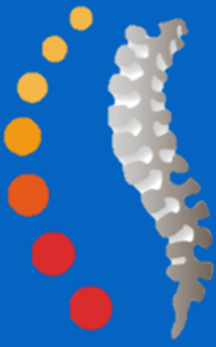
ANZBMS Member Awards

ANZBMS Member Publication Highlights

Calendar of Events



Cover Image by Dr Haniyeh Hemmatian, Postdoctoral Research Officer, Bone Cell Biology & Disease, St Vincent's Institute of Medical Research (Melbourne). Quantitative Backscattered Electron Imaging of human cortical bone, sourced from the Melbourne Femur Research Collection (<https://doi.org/10.26188/14265731>), showing various osteons with different calcium content. Darker osteons have a lower calcium content.



Welcome to the ANZBMS Newsletter

In this issue

- President's Comment (3)*
- Committee Updates (4, 5)*
- ECIC Report (6, 7)*
- ECIC Fellowship Coaching Program (8)*
- ECI Spotlight (9)*
- ECI Funding Opportunities (10)*
- ANZBMS/RACP webinars (11)*
- New member spotlight (12)*
- Member Awards & Achievements (13)*
- Member Publications (14-17)*
- HubLe update (18)*
- ANZBMS Inquiries (19)*
- Calendar of Events (20, 21)*

Welcome to the September 2024 issue of the ANZBMS newsletter!

In this issue, ANZBMS president Professor Mark Cooper expresses his excitement about the upcoming ESA-SRB-ANZBMS 2024 conference (page 3). We also present updates from the Program Organising Committee (page 4) and Clinical Practice Committee (page 5). We congratulate Kara Anderson on her appointment as the Acting ECIC Co-Chair! The committee is working relentlessly to find new ways to connect and support ECIs and have now established a Facebook and LinkedIn group (find the QR codes to join on page 6-7)! The ECIC has also established the Fellowship Coaching Program to support ECIs with their NHMRC applications (page 8).

We congratulate award recipients on their achievements (page 13) and ANZBMS members on their publications (page 14-17). Get an update on the HubLe news (page 18) and make sure to add the Melbourne Bone Group Meeting, ESA-SRB-ANZBMS and QMSKI conference to your calendar (page 20-21).

All the best and happy reading from the ANZBMS Newsletter Editorial Board!

ANZBMS Newsletter Editorial Board



Dr Martha Blank



Dr Pholpat Durongbhan



Dr Haniyeh Hemmatian



Dr Mícheál Ó Breasail



Jacob Harland



Dr Michelle Maugham-Macan



Dr Jakub Mesinovic



Dr Lucy Collins



Dr Shejil Kumar

Next Issue: December 2024

 newsletter@anzbms.org.au

 @ANZBMSoc



President's Comments



Professor Mark Cooper

BMBCh PhD FRCP (London) FRACP, GAICD

ANZBMS President
Head of Clinical School, Concord Clinical School
Faculty of Medicine and Health
Patyegarang Precinct

We are rapidly approaching our Annual Meeting, held in combination with ESA and SRB. The program is outlined on the meeting website, so please check this out. Our meeting is set to get off to a fast start with a Science at Speed Networking Session and a Bone Health Foundation (BHF) Special Symposium taking place prior to the Welcome Reception on the Sunday evening. The BHF Special Symposium is designed to highlight some of the projects that have been jointly funded by BHF and ANZBMS in recent years. It includes contributions from excellent local and overseas bone scientists. For our clinical members please also consider attending the ESA Clinical Weekend which happens just before the Annual Meeting. This meeting is co-badged with ANZBMS with sessions dedicated to bone clinical cases. The overseas bone expert for the meeting is Dr Joy Wu from Stanford University School of Medicine.

Our Clinical Practice and Therapeutics Committees continue to advocate for more widespread availability of therapeutics for bone diseases and for subsidisation of the tests that are often required to get access to these drugs. Improving access to drugs like burosumab and romosozumab is something that have contributed to and there are likely to be some additional developments in the next few months. My thanks go out to all of the Committee members for making this happen.

As President and a former lead for the Annual Meeting Program Organising Committee I am aware that this time of the year places a considerable burden of time for members of our society involved with organising meetings, and assessing grants and awards. Additionally, we now have a number of research grants that require assessment, something done with great care and in a way that ensures fairness. However, this type of activity takes time and energy and is done in a purely voluntary capacity. With this in mind, if invited to do something for our society please say yes as this will even out the load. Also at the Annual Meeting please take time out to say hello and thanks to individuals who are members and chairs of the various committees which comprise our society. This is probably my last communication with you before the Annual Meeting. I look forward to meeting everyone there. Please catch up with me if you wish to discuss any aspect of the running of ANZBMS and also please take the time to attend the AGM on the Tuesday afternoon.



ANZBMS Committee Updates

Program Organising Committee

The combined ESA-SRB-ANZBMS Annual Scientific Meeting is rapidly approaching. We are looking forward to an exciting program of excellent presentations from both national and international researchers. As indicated in our previous update, all speakers are confirmed. Thanks for the diligent efforts of all abstract reviewers, all abstracts have been reviewed and are soon to be allocated to sessions.

The Bridging Overseas Networking and Exchange (B.O.N.E) program speakers are now confirmed. From ECTS, we have Dr Katharina Jähn-Rickert from University Medical Centre Hamburg, Germany presenting on the "amazing" osteocyte and its lacuno-canalicular network in relation to disease states such as diabetic bone disease. The speaker from ASBMR will be Dr Andrea Cowan from the University of Western Ontario, Canada who will be talking about a tool for fracture prediction in patients receiving maintenance dialysis.

Prof Mary Bouxsein from Harvard University has also accepted an invitation to speak at the inaugural Bone Health Foundation Symposium, to be held on Sunday the 10th November from 4pm, about the effects of space flight on bone health.

The ESA Scientific Strengthening Committee will conduct a morning session to highlight collaboration between basic science and clinical researchers. Senior members of each society, the ESA, SRB and ANZBMS will present, with Michelle McDonald representing the ANZBMS.

We look forward to seeing you in Adelaide.





ANZBMS Committee Updates

Clinical Practice Committee

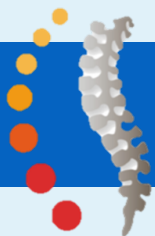
Throughout the year, the Clinical Practice Committee has been hosting a series of online webinars: “Clinical Challenges in Bone”. These have covered contemporary areas of equipoise and challenge in bone and mineral medicine – the cardiovascular signal of romosozumab (how to counsel patients and implications), the impact of diet, exercise and lifestyle in promoting bone and muscle health in our patients, and more recently, considerations in the management of bone health in transgender patients.

The committee once again sincerely thanks contributors including speakers and chairs who generously give up their time to advance the knowledge of their peers and share their skills and insights. What better way to spend one’s time!

The recordings will be made available to registrants and society members and we welcome any feedback.

We have one final webinar planned for on 15th October on “Managing skeletal disorders during growth and transition to adulthood”. We encourage you to dial in on the night as we present challenging cases as experts in paediatric and adult endocrinology come together. Information can be found here (please register): <https://www.anzbms.org.au/ccbw/>

We’re always happy to hear your suggestions on how we can better engage with clinicians. If you'd like to hear more or have ideas around clinician engagement/education, please feel free to email Christian Girgis on christian.girgis@sydney.edu.au or Jasna Aleksova, the new incoming chair, on jasna.aleksova@hudson.org.au



ECIC Co-Chairs Report

The second half of the year appears to be flying by, as the ANZBMS ECIC dot the i's and cross off the t's on plans for the remainder of the year and early 2025.

We have had another successful year of the Fellowship Coaching Program and thank our mid-career and senior researchers A/Profs Christian Girgis, Joshua Lewis, David Scott, Nathan Pavlos, Rachel Davey and Dr Sandra Iuliano who invested their time and effort towards our ECIs through their mentorship and guidance during this very important initiative.

The ECI Engage Seminar series has again been popular; the most recent session engaged Dr Shejil Kumar, A/Prof Joshua Lewis and A/Prof David Scott in a very informative discussion on SEED grants; we're grateful for their valuable insights.

The ANZBMS ECI Clinical Sub-Committee was responsible for the administration of the JBMRPlus special issue on hypophosphataemic bone disorders which was generously funded by Kyowa Kirin Australia. We thank all authors who submitted an abstract and send our best wishes to the authors who are now awaiting decisions on manuscript acceptance from the JBMRPlus editorial board. We thank the ANZBMS Clinical Practice Committee and ANZBMS Council for prioritising this initiative which is undoubtedly of great benefit to our ECIs.

We now have access to the ESA-ANZBMS Fellowship Database which provides information on available clinical and non-clinical endocrine (including bone) fellowships throughout Australia. While the current iteration does not detail fellowships in New Zealand, we would love to receive submissions of available fellowships to be included. You can access the database or submit information through the links available at [ANZBMS - ESA ANZBMS Fellowship Database](#).

The ECIC is always considering ways to support and promote the work of our ECIs and encourage networking and collaboration in order to facilitate impactful research. To this end, we

have created a Facebook group "ANZBMS" where we will facilitate 6 weekly discussions on a journal article or topic of interest and promote relevant initiatives and opportunities. Come and join us! You can use the QR code below to find us.



The Career Development committee has also had a busy few months developing and coordinating events and opportunities for ECIs. The B.O.N.E program has been a resounding success in the past and in 2024, the European Calcified Tissue Society was keen to involve ANZBMS ECIs in the ECTS Academy Webinar series. We look forward to reporting the outcome in our next report.

A few congratulations are in order:

- A/Prof Christian Girgis was selected by the European Calcified Tissue Society to represent ANZBMS as part of the B.O.N.E program at ECTS 2024 in April this year.
- Dr Ben Kirk will be representing ANZBMS at ASBMR 2024 and present his research on *'Interactions between bone and muscle quality on mortality risk in 1,353 men (aged 77-101) over 6 years: A prospective cohort study utilizing high-resolution bone imaging and stable muscle isotopes'*
- Please join the rest of the ECIC in congratulating Dr Kara Anderson on her new role as Acting Co-Chair of ECIC for the remainder of 2024.



ANZBMS ECIC Report

We look forward to catching up with many of you and meeting any new ECIs at the upcoming ASM in November! The ECIC will also host invited speakers through the B.O.N.E program: Dr Katharina Jähn-Rickert has been invited to represent ECTS and speak on her research on the "*amazing osteocyte and its lacuno-canalicular network in relation to disease states*"; ASBMR will be represented by Ms Andrea Cowan who will speak on "fracture prediction in patients receiving maintenance dialysis: a simple tool". Please join us in welcoming them at the ASM.

The ECIC are also very excited to learn of all the work our ECIs have been involved in over the past few months – our best wishes to all who will be presenting! Help us promote your research by sharing an image of your poster or oral presentation on X and tag us! Don't forget to register for the ECIC events that have been organised for you. Do also drop in to our ECIC lounge to say hello, share ideas for initiatives that you'd like implemented or find out how you can become involved with ECIC!

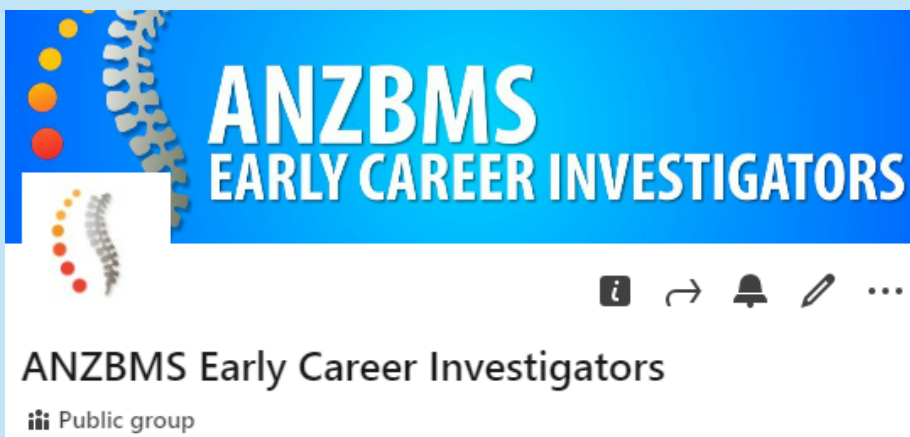
The ANZBMS ECIC is focussed on empowering you, the ECIs. We would love to share your news and successes through our various communication channels; please contact us at ecic@anzbms.org.au.

Best wishes,



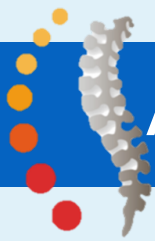
Madhuni Herath and Kara Anderson

ANZBMS ECIC Co-Chairs 2024



The ECIC communications subcommittee have set up an ANZBMS ECIC LinkedIn group to complement our presence on other platforms and to further engagement with members of the society. The group is open to all, not just ECI members.

Feel free to join and to invite others: <https://www.linkedin.com/groups/14521492/>



ANZBMS ECIC Fellowship Coaching Program

The Fellowship Coaching Program is an initiative developed and established by the ANZBMS ECIC. The program supports two ECIs with their NHMRC Investigator Grant applications. It is an opportunity for selected ECIs to each be coached by two mid-career investigators who provide feedback to strengthen the track record, research impact and leadership sections of their application. A panel of senior researchers from the society also review each application and provide a final round of expert feedback.

Coordinator



Micaela Quinn

Mentees



Dr Abadi Gebre



Dr Angela Sheu

Mentors



Dr Sandra Iuliano



A/Prof David
Scott



A/Prof Christian
Girgis



A/Prof Joshua
Lewis

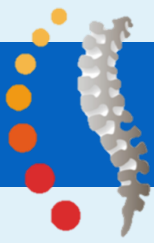
Senior Panel Members



A/Prof Nathan Pavlos



A/Prof Rachel Davey



ANZBMS ECI Spotlight



Dr Jason Talevski

Senior Research Fellow, Victorian Virtual Emergency Department, Northern Health, Epping, Victoria

Can you briefly describe what your research is about / what are your research interests?

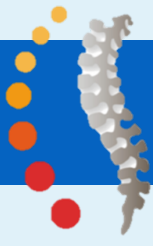
I wear many hats in my research career! At the moment I am working at Northern Health as a Senior Research Fellow in the Victorian Virtual Emergency Department (VVED). My research primarily focusses on determining the quality, safety, and efficacy of this novel and innovative virtual model of care. This includes exploring many different modalities of digital health care including using AI to improve efficacy of healthcare interactions. However, both my PhD and postdoc focussed on improving osteoporosis diagnosis and post-fracture management in the primary care setting. I embedded co-design and close collaboration with clinicians/consumers as core principles of my research and am still very interesting in advancing my research in this area.

What motivates your research / what are your goals for the future?

I would say I am a health equity researcher at the forefront. My research motivation mainly stems from a desire to make healthcare more accessible and efficient for vulnerable populations. Right now, I am focussed on the potential impact virtual care can have on the healthcare system, particularly in bridging gaps in access to care in rural and remote communities and Aboriginal and/or Torres Strait Islander peoples. Ultimately, I hope to influence healthcare policies that prioritise preventive care and enhance the quality of life for vulnerable patients.

Do you have tips that would help ECIs in this stage of their career?

My biggest advice (which sometimes I ignore myself) would be don't be afraid to say NO! As ECIs it's easy for us to feel pressure to say yes to every opportunity, project, or collaboration. However, it's important to prioritise your time and energy on work that aligns with YOUR goals and advances YOUR research. It's better to focus on a few key areas and excel in them rather than spreading yourself too thin. This will also help if you are ever in the situation of applying for an NHMRC Investigator Grant one day...you need to promote your "Program of Research" so say yes to opportunities that will make this as strong and impactful as possible.



ECI Funding Opportunities

Grant/Fellowship Scheme*	Application Period
<u>ARC Early Career Industry Fellowships</u>	24 September - 12 November 2024
<u>The MJA Award for Excellence in Medical Research</u>	Deadline: 31 December 2024

**Clicking on the scheme name will redirect you to the grant/fellowship website.*



ANZBMS/RACP Webinar Series

This series discusses key topics in managing musculoskeletal health, presented by the ANZBMS in partnership with the Royal Australasian College of Physicians.

Upcoming events:

Sarcopenic obesity & bone/muscle health following weight loss treatments

Monday, 23rd September, 6.00-7.00PM AEDT

Speaker: A/Professor David Scott

Exercise in the management of osteoporosis

Monday, 21st October, 6.00PM-7.00PM AEDT

Speaker: Professor Belinda Beck

Cardiovascular safety with osteoporosis pharmacotherapy

Monday, 18th November, 6.00PM-7.00PM AEDT

Speaker: Professor Peter Ebeling

If you're interested, you can register [here](#).

<https://event.racpevents.edu.au/specialty-society-webinar-series-2024/anzbms>





ANZBMS New Member Spotlight

Degami Herath

2nd Year PhD Candidate at the School of Medicine, Deakin University

Research Category: Basic

Research interests: My research interest is in children's bone cancers, particularly osteosarcoma. I am focused on investigating epigenetic changes, specifically, DNA methylation driving the initiation and progression of osteosarcoma.

What I hope to gain from joining ANZBMS: I am keen to advance my knowledge in basic science but also want to expand my understanding of clinical applications, such as translating my research to novel treatment strategies for patients. I also look forward to networking and learning more about bone and mineral disorders in children as well as in adults.



Dr Gabi Stokes

Endocrinology Fellow, Monash Health and PhD Candidate, School of Medicine, Monash University

Research category: Clinical

Research Interests: Metabolic bone disease - particularly in underserved populations. My current focus is on fracture prevention following a stroke and how we can use existing models of care to improve outcomes.

What I hope to gain from joining ANZMBS: To learn more about bone and mineral disorders from a broad network of experts and to network and collaborate with clinicians and scientists who share common interests.





ANZBMS Member Awards



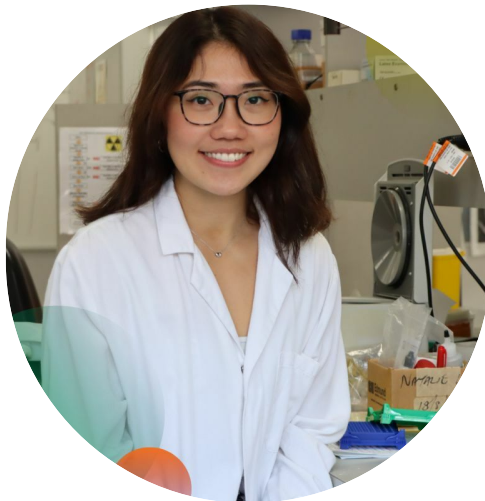
Peter Ebeling
Monash University

2024 ASBMR Frederic C. Bartter Award



Jiao Jiao Li
University of Technology Sydney

2024 Eureka Prize for emerging leader in science



Natalie Koh
St. Vincent's Institute of Medical Research
University of Melbourne

2024 ISBM Top Abstract Awardee



ANZBMS Member Publications

[Manavi BA](#), [Corney KB](#), [Mohebhi M](#), [Quirk SE](#), [Stuart AL](#), [Pasco JA](#), [Hodge JM](#), [Berk M](#), [Williams LJ](#). The neglected association between schizophrenia and bone fragility: a systematic review and meta-analyses. *Transl Psychiatry*. May 2024;14(1):225. doi: 10.1038/s41398-024-02884-1.

Featured author:

Behnaz Azimi Manavi

Institute for Mental and Physical Health and Clinical Translation-IMPACT, Deakin University, Geelong, VIC
E: bazimimanavi@deakin.edu.au



What is the background of the study?

Schizophrenia is associated with increased risk of medical comorbidity, possibly including osteoporosis, which is a public health concern due to its significant social and health consequences. In this systematic review and meta-analysis, we aimed to determine whether schizophrenia is associated with bone fragility.

What did you find?

Our search yielded 3,103 studies, of which 29 met predetermined eligibility criteria. Thirty-seven reports from 29 studies constituted 17 studies investigating BMD, 8 investigating fracture, 3 investigating bone quality, and 9 investigating bone turnover markers. The meta-analyses revealed people with schizophrenia had lower lumbar spine and femoral neck BMD, and higher risk of fracture. Following adjustment for publication bias, the association between schizophrenia and femoral neck BMD and fracture remained. A significantly increased risk of bone fragility was observed in people with schizophrenia, independent of sex, participant number, methodological quality meta-analysis, we aimed to determine whether schizophrenia is associated with bone fragility and publication year.

What is the application of these findings?

This study provides evidence in support of bone fragility in people with schizophrenia. Specifically, people with schizophrenia have lower BMD, particularly at the femoral neck, a higher risk of fracture, poorer bone quality and increased bone turnover. Given that osteoporosis often remains undetected until a fracture occurs, early identification of those at risk is crucial. Our study underscores the necessity for regular bone health screenings and personalized interventions in schizophrenia, focusing on factors like medication management and lifestyle modifications to mitigate fracture risk.



ANZBMS Member Publications

[Durongbahn P.](#), [Davey CE.](#), [Stok KS.](#) Empirical modelling workflow for resolution invariant assessment of osteophytes. *Transl Psychiatry*. July 2024. Online ahead of print. doi: [10.1109/TBME.2024.3431634](https://doi.org/10.1109/TBME.2024.3431634).

Featured author:

Pholpat (Big) Durongbahn

Department of Biomedical Engineering,
University of Melbourne, VIC

E: p.durongbahn@unimelb.edu.au



What is the background of the study?

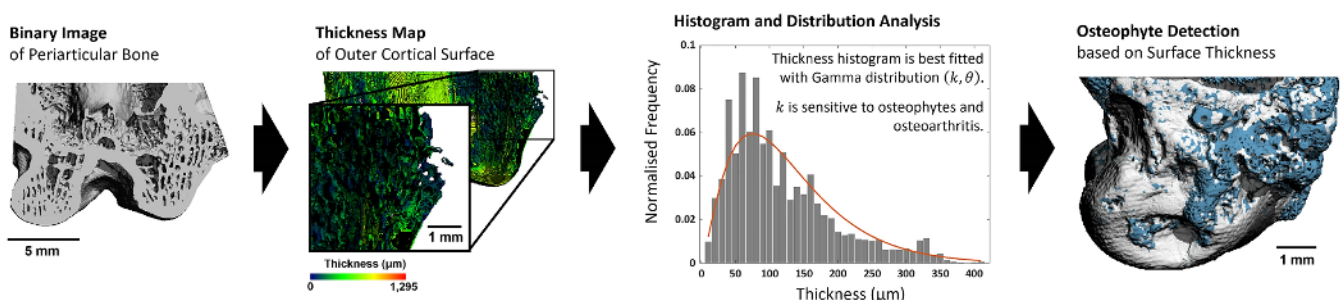
Osteophytes, a hallmark of osteoarthritis, are bony outgrowths at joint margins formed by abnormal bone remodelling, resulting in disruptions to the bone surface. This study aimed to harness these structural changes to develop a robust, automated approach for detecting and quantifying osteophyte activity using 3D high-resolution CT images.

What did you find?

In this study, we confirmed our hypothesis that quantitative assessment of osteophytes through surface derangements can be achieved. Osteophytes led to increased roughness at the bone surface while abnormally remodelling the underlying cortical structure. We captured these changes by developing a pipeline combining a 3D thickness transform and empirical fitting of the Gamma distribution. We validated our workflow using microCT images of rabbit and rat models of knee osteoarthritis and found the approach to be invariant to animal scale and image voxel size. Validation with histology confirmed that the method is sensitive to osteoarthritis and the presence of osteophytes.

What is the application of these findings?

We present a novel, automated, and objective 3D image processing workflow for osteophyte assessment at the cortical surface, which remains robust across varying image resolutions, animal models, and voxel sizes. Unlike existing proposals, the method is not reliant on access to external datasets and does not assume ideal surface conditions. The workflow leverages widely used algorithms, making it accessible and easily implementable by others. Furthermore, by detecting surface derangements, it can be readily adapted to capture other forms of abnormal cortical bone remodelling (e.g., erosions) and can be a valuable addition to the current suite of analysis methods.





ANZBMS Member Publications

[Nguyen HH](#), [Le DT](#), [Shore-Lorenti C](#), [Chen C](#), [Schilcher J](#), [Eklund A](#), [Zebaze R](#), [Milat F](#), [Sztal-Mazer S](#), [Girgis CM](#), [Clifton-Bligh R](#), [Cai J](#), [Ebeling PR](#). **AFFnet - a deep convolutional neural network for the detection of atypical femur fractures from anteriorposterior radiographs.** *Bone*. July 2024. doi: [10.1016/j.bone.2024.117215](https://doi.org/10.1016/j.bone.2024.117215).

Featured author:

Hanh Nguyen

Department of Medicine, School of Clinical Sciences, Monash University, Melbourne, VIC
Metabolic Bone Service, Department of Endocrinology & Diabetes, Western Health
E: hanh.nguyen@monash.edu

What is the background of the study?

Atypical femur fractures (AFFs) occur in the subtrochanteric or diaphyseal region of the femur and begin as early stress fractures of the lateral cortex, known as incomplete AFFs (iAFF), and progress medially to become complete fractures (cAFFs). Recognised as complications of long term antiresorptive therapy use, they are associated with delayed healing, prodromal pain and commonly occur in bilateral femurs. Timely diagnosis of AFFs is important to provide early intervention, however, despite having distinct radiographic features from typical femur fractures (TFFs), AFFs are often undetected or misdiagnosed.

What did you find?

In this study, we investigated the ability of a deep learning model, AFFnet, to classify iAFF and cAFF from TFF and non-fractured femur (NFF) images. AFFnet was developed with a novel Box Attention Guide module to guide the model's scanning patterns to enhance its learning. Trained on a labelled dataset of 2015 femur x-rays in anterior-posterior view, the model achieved excellent diagnostic performance on internal and external validation testing (all AUC >0.97). AFFnet outperformed a conventional training model in prediction errors and sensitivity, particularly for the detection of iAFF (sensitivity 82% vs 56%).

What is the application of these findings?

An accurate AFF diagnostic support screening tool such as AFFnet has the potential to improve AFF detection in both the clinical and research domains. With the ability to process radiographs at a high speed (2000 x-rays within 2 minutes), this model could be a highly efficient, standardised analysis tool to retrospectively monitor AFF incidence in a research setting. Further, AFFnet could be embedded in radiology databases and monitor femoral radiographs in real-time, alerting radiologists to an AFF classification, therefore allowing early surgical and non-surgical intervention. Further research is underway to investigate AFFnet in a real-world environment.

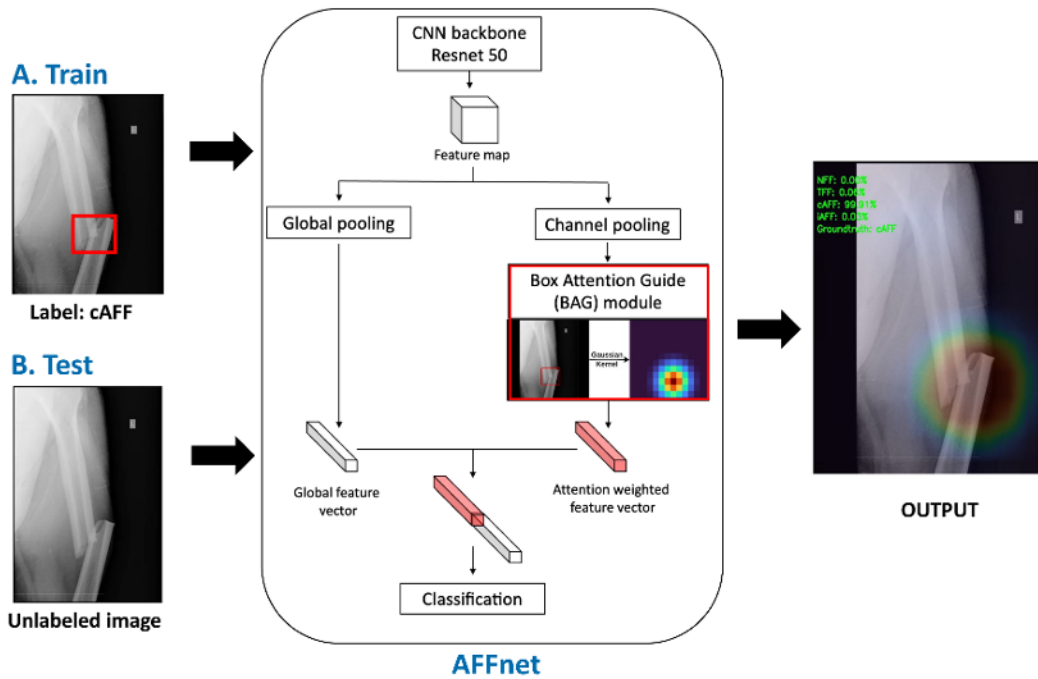


Figure 3: Deep learning method of AFFnet

A. To train the model, a labelled x-ray image was processed through the convolutional neural network backbone, ResNet50, in order to extract significant global features. A deeper layer of training was also implemented using a novel Box Attention Guide (BAG) module, which guides the model to concentrate its learning over attention maps created from the bounding boxes. **B.** During model testing, an unlabeled image is sent through AFFnet to process, and the final global feature and attention weighted feature vectors are combined to produce the model's final classification. The output includes computerized activation maps (heat maps) to depict the focal region the model used to make its prediction.



IFMRS HubLE update

At IFMRS HubLE, the unique online educational platform for early-career researchers (ECRs) in the musculoskeletal (MSK) field, we are committed to fostering growth, collaboration, and innovation. As the newly appointed Editor-in-Chief, I'm excited to reaffirm our vision for IFMRS HubLE — to be a dynamic and inclusive space where ECRs can connect, learn, and share knowledge. Our mission is to empower ECRs through a range of initiatives that address key challenges, promote scientific exchange, and provide valuable resources for professional development.

We want to take a moment to thank our previous Editors-in-Chief for their outstanding contributions and dedication. Their hard work has laid a strong foundation for [IFMRS HubLE](#), creating a welcoming community for academic growth for ECRs in MSK field. We are also deeply grateful to our current associate editors, editors and advisors who continue to make [IFMRS HubLE](#) a vibrant hub for ECRs.

Looking ahead, we are excited to continue our journey with several key initiatives that embody the spirit of IFMRS HubLE:

1. **HubLE Exchange:** An archive featuring opinion pieces that highlight critical barriers and key topics of debate within our international community of early- and mid-career basic and clinical scientists in musculoskeletal research. This initiative fosters meaningful conversations and diverse perspectives.
2. **HubLE Graphics:** A collection of images, infographics, and creative visual content designed by our community members. These visuals help convey complex scientific concepts in engaging ways, showcasing the creativity within our field.
3. **HubLE Opinions:** An archive of opinion pieces that emphasize key barriers and debates facing early- and mid-career scientists in musculoskeletal research. This initiative provides a platform for members to express their views and engage in ongoing dialogue.
4. **HubLE Publications:** An archive featuring author interviews, thesis summaries, and scientific highlights, showcasing the latest research and discoveries by emerging scientists. Our goal is to promote and celebrate the contributions of early- and mid-career researchers.
5. **HubLE Resources:** A comprehensive archive offering valuable materials, such as research protocols, guidelines, and best practices, to support academic development and advance research in musculoskeletal science.

We are eager to introduce new initiatives to further expand our impact and strengthen our support network. Stay tuned for more updates, follow us on [LinkedIn](#) and [X \(Twitter\)](#), and feel free to reach out with your thoughts or suggestions for potential new initiatives at info@huble.org. Together, we can continue to build a thriving community that supports growth and development for all ECRs.

[Mustafa UNAL, PhD](#)

Editor-in-Chief, IFMRS HubLE

Department of Orthopedics, Harvard Medical School/BIDMC, Boston, MA,

Department of Bioengineering and Faculty of Medicine, Department of Biophysics, Karamanoglu Mehmetbey University, Turkiye

ANZBMS Researchers: We want to share & celebrate your wins!

We are on the lookout for members who have celebrated success (awards and publications) to be highlighted in the Spotlight or Publication sections for the upcoming editions of the newsletter. If you know of someone or want to self-nominate, please email us at newsletter@anzbms.org.au



**WE WANT
YOU!**

***The ANZBMS Newsletter Editorial Board is
searching for new members!***

Open to all ANZBMS members at any stage in their career. For more information and to apply, please e-mail newsletter@anzbms.org.au with up to 150 words explaining why you would be a good addition to the newsletter team.

Calendar of Events

Please register via the link or QR code:

<https://shorturl.at/FKfor>



Wednesday 16th October 2024

18:30 - 20:15

St. Vincent's Institute, 9 Princes Street, Fitzroy

Light refreshments from 17:50 sponsored by



Using cohort studies to assess bone health

Dr Kara Anderson

*IMPACT Institute
School of Medicine
Deakin University*



Vertebral column development: the long and short of it

Prof Edwina McGlenn

*Australian Regenerative Medicine Institute
Monash University*



Soft and broken bones in children

A/Prof Erich Rutz

*Bob Dickens Chair Paediatric Orthopaedic Surgery,
Department of Paediatrics, The University of Melbourne
Clinical Director, Hugh Williamson Gait Laboratory
Consultant Paediatric Orthopaedic Surgeon*

Please join us for drinks afterwards at The Workers Club (Gertrude St, Fitzroy)



Calendar of Events

**ESA-SRB
ANZBMS
2024**

in conjunction with ENSA

10-13 November 2024
Adelaide Convention Centre, South Australia

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We are excited to invite you to the 24th International Workshop on
Quantitative Musculoskeletal Imaging

**QMSKI
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The Barossa Valley
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