



Welcome

This meeting follows highly successful bone meetings held every two years in Clare since 2000.

Participants include basic scientists, clinicians, health professionals and postgraduate students from all disciplines working on bone. The objective is to update clinicians with an understanding of current research and to confront scientists with clinical realities.

The format is designed to stimulate new ideas, with ample time for both formal and informal discussion.

We look forward to your company.

Gerald Atkins, Paul Anderson, Jakub Jagiello, Peter Smitham, Karen Reynolds, Bogdan Solomon, David Campbell & David Findlay
Organising Committee

International Speakers

Associate Professor Christopher J. Hernandez (USA)

Dr Bernd Grimm (Luxembourg)

National Speakers

David Ackland (Melbourne)

Paul Anderson (Adelaide)

Clair Lee (Orthocell, Perth)

Stephen Kidd (Adelaide)

Alice Burke (Adelaide)

David Campbell (Adelaide)

Peter Croucher (Sydney)

Josh Davis (Newcastle)

Ian Harris (Sydney)

Maya Kansara (Sydney)

David Martin (Adelaide)

Jakub Jagiello (Adelaide)

Karen Reynolds (Adelaide)

Mark Rickman (Adelaide)

Natalie Sims (Melbourne)

Jasvir Bahl (Adelaide)

Kate Vandyke (Adelaide)

Nicole Williams (Adelaide)

Jeffrey Hassall (Amgen, Australia)

The Eleventh Clare Valley Bone Meeting
In conjunction with ANZBMS
Clare Convention Centre, Clare, SA | 28 February – 2 March 2020



The 11th Clare Valley Bone Meeting Organising Committee are most grateful to the following organisations for their generous support:



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General Information

Accommodation

The cost of your room should have been pre-paid prior to your arrival. You are required to settle the account for any extras i.e. phone calls, laundry etc. when you check out.

Transport

For those leaving on the return coach to Adelaide on Monday 2 March, the coach will be parked on the roadside near to the convention centre. Please ensure that all luggage is loaded onto the coach by 12.30 pm. Please remember to deposit your key at the desk before leaving and allow yourself enough time to check-out as the coach will depart promptly at 1.00 pm.

AV Facilities and Group Photograph

All sessions will be held in the Convention Centre. Power Point presentations should be handed in to Steve Routley, the AV Director, as soon as possible. He will be available in the lecture room before and after each session. Steve will also be taking a group photograph of all participants – please meet at the Convention Centre at the conclusion of sessions at 1.00 pm on Sunday 1st March.

Posters

Posters will be on display for the duration of the meeting. They should be taken down immediately after morning tea on Monday. Poster presenters will be in attendance during the wine tasting on Saturday evening.

Catering

A fully cooked buffet breakfast will be served in the restaurant for all participants, including those housed off-site, between 7.00 –8.00 am each day.

Coffee breaks and lunches will be served in the Pavilion area adjacent to the Convention Centre.

Details of the social events are below. Dress is informal on all occasions.

Note: Participants who have requested special meals should identify themselves to the catering staff at the beginning of the meal.

Registration Desk

Lara Malcolm (Mobile telephone: 0411 439 410) will be on hand to assist at the Convention Centre at the following times:

Friday 28 February	14:00 – 19:00	Sunday 1 March	08:30 – 13:00
Saturday 29 February	08:00 – 17:30	Monday 2 March	08:00 – 12:00

Social Events

Friday 28 February 2020

Welcome Reception 17:30 – 19:30

Substantial finger food, champagne, beer, wine and soft drinks will be served at an informal reception in the Clare Country Club Restaurant.

Saturday 29 February 2019

Wine tasting and BBQ dinner 18:00 – 21:30

This is an opportunity to meet local winemakers and brewers and purchase if desired. The wine tasting will be followed by a BBQ dinner in the Clare Country Club Restaurant.

Sunday 1 March 2020

Free Afternoon 13:30 – 17:30 Enjoy an afternoon of your choice of leisure activities.

Sunday 1 March 2020

Dinner at O'Leary Walker Winery, Leasingham 18:30 – 22:00 – Coach departs at 18:00 from the Clare Country Club.

Please meet the coach for departure to the dinner at 18:00. The coach will be parked on the roadside next to the swimming pool. A three-course dinner with drinks will be served.

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This year there are four Meeting Themes:

- *Human movement, biomechanics and bioengineering*
- *Bone Health throughout our lifetime*
- *Understanding, prevention and treatment of bone infection*
- *State-of-the-art understanding of bone cancer*

FRIDAY 28th FEBRUARY 2020

12.00 pm	Coach departs from Adelaide Airport to Clare Convention Centre <i>Ensure that your flights arrive into Adelaide Airport by 11.30 am.</i>	<i>Adelaide Airport</i>
2.00 pm	Registration	<i>Clare Country Club Foyer</i>
4.00 pm	Welcome <i>Chair: Gerald Atkins (University of Adelaide)</i>	<i>Clare Convention Centre</i>
4.30 pm – 5.15 pm	Session 1: Plenary	
4.30 pm	<i>A Tribute to Howard Morris – Scientist, Educator, Friend</i> Natalie Sims (University of Melbourne)	
4.45 pm	<i>The Gut microbiome and MSK health</i> Christopher Hernandez (Cornell University, NY, USA)	
5.30 pm	Welcome Reception	<i>Clare Country Club Restaurant</i>

SATURDAY 29th FEBRUARY 2020

7.00 am onwards	Breakfast	<i>Clare Country Club Restaurant</i> <i>Clare Convention Centre</i>
8.30 am – 10:00 am	Session 2: A Lifetime of Musculoskeletal Health Sponsored by <i>Chair: Professor David Findlay (Adelaide)</i>	
8.30 am	<i>Is surgery the ultimate placebo?</i> Ian Harris (South Western Sydney Clinical School)	
8.55 am	<i>What vitamin D means to the MSK system</i> Paul Anderson (University of South Australia, Adelaide)	
9:25 am	<i>Sport-related injuries and surgical interventions: What is the lifetime impact?</i> David Martin (SportsMed, Adelaide)	
9:45 am	<i>Developmental dysplasias of the hip</i> Nicole Williams (Women's and Children's Hospital, Adelaide)	
10.10 am – 10.45 am	Morning Break	<i>The Pavilion</i>

SATURDAY 29th FEBRUARY 2020 continued...

10.45 am – 1.00 pm	Session 3: Human Movement and Biomechanics <i>Chair: Karen Reynolds (Adelaide)</i>	<i>Clare Convention Centre</i>
10.45 am	<i>The clinical use of activity monitoring</i> Bernd Grimm (Luxembourg Institute of Health, Luxembourg)	
11.15 am	<i>The Medical Device Partnering Program: Making the Right Connections</i> Karen Reynolds (Flinders University, South Australia)	
11.45 am	<i>Patient gait and orthopaedic outcomes</i> Jasvir Bahl (University of Adelaide)	
12.00 pm	<i>Muscle and joint function after anatomic and reverse total shoulder arthroplasty: Biomechanics perspectives</i> David Ackland (University of Melbourne)	
12:45 pm – 2.00 pm	<i>Lunch</i>	<i>The Pavilion</i>
2.00 pm – 4.10 pm	Session 4: New Insights into Orthopaedic Infection <i>Chair: Gerald Atkins (Adelaide)</i>	<i>Clare Convention Centre</i>
2.00 pm	<i>Clinical management of PJI</i> David Campbell (Calvary Wakefield Hospital, Adelaide)	
2.30 pm	<i>The gut microbiome and periprosthetic joint infection</i> Christopher Hernandez (Cornell University, NY, USA)	
3.00 pm	<i>PIANO and PIANO-FORTE; how sweet is the sound?</i> Josh Davis (Menzies School of Health Research, Newcastle)	
3.30 pm	<i>Bacterial stress responses during chronic infection</i> Stephen Kidd (University of Adelaide)	
3.50 pm	Panel Discussion: Orthopaedic Infections: What are the gaps?	
4:10 pm – 4.40 pm	<i>Afternoon Break</i>	<i>The Pavilion</i>
4.40 pm – 6.15 pm	Session 5: Emerging Scientist (doing PhD or within 10 years of higher degree) Showcase <i>Chairs: Paul Anderson (Adelaide) and Chris Hernandez (USA)</i>	
4.40 pm	Stress distribution in the mouse-tibia loading model using analytical approaches together with correction factors <i>Edmund Pickering</i>	
4.52 pm	Characterisation of spatially discrete cortical bone adaptation in mice tibia due to dynamic mechanical loading <i>Corey Miller</i>	
5.04 pm	New strategies for bone graft materials <i>Sacha Cavalier</i>	
5.16 pm	Increased activity of TGFβ1 in the subchondral bone associates with the severity of human osteoarthritis <i>Dzenita Muratovic</i>	
5.28 pm	Osteoblastic CYP24A1 deletion does not improve bone health in a mouse model of X-linked hypophosphatemic Rickets <i>Kate Barrett</i>	
5.40 pm	Developing a cell line model of osteocyte infection <i>Nick Gunn</i>	
5.52 pm	A direct link between Alzheimer's disease and osteoporosis: Amyloid Beta ₁₋₄₂ Peptide overexpression causes age-related bone loss <i>Catherine Stapledon</i>	
6.04 pm	Tibia cartilage thickness is correlated with in vivo knee joint loading indices <i>Sophie Rapagna</i>	
6.30 pm	Poster viewing Buffet Dinner	<i>The Pavilion</i> <i>Clare Country Club Restaurant</i>

POSTER PRESENTATIONS

P1 Extensive modelling-based bone formation after 2 months of romosozumab treatment: Results from the FRAME clinical trial
Amgen


P2 The TrkB agonist, 7,8-DHF, impairs fracture healing in mice
Maddison Johnston

P3 A novel rat model of heterotopic ossification after polytrauma with traumatic brain injury
Rhys Brady

SUNDAY 1st MARCH 2020

7.00 am onwards	Breakfast	<i>Clare Country Club Restaurant</i>
8.30 am – 11:10 am	Session 6: Bone Cancer – Causes, Prevention & Treatment <i>Chair: Jakub Jagiello (Adelaide)</i>	<i>Clare Convention Centre</i>
8.30 am	<i>Bone cancer – The state of play</i> Jakub Jagiello (The South Australian Sarcoma and Bone Tumor Unit, Adelaide)	
8.55 am	<i>Bench to bedside; New Therapeutic Opportunities in Osteosarcoma</i> Maya Kansara (Garvan Institute, Sydney)	
9.25 am	<i>Multiple Myeloma progenitor cells</i> Peter Croucher (Garvan Institute, Sydney)	
9.55 am	<i>The role of senescent bone marrow stromal cells in driving progression from MGUS to multiple myeloma</i> Kate Vandyke (SAHMRI, Adelaide)	
10.15 am	Panel Discussion <i>Bone and cancer: what are the gaps and links?</i>	
11.20 am – 11.50 am	<i>Morning Break</i>	<i>The Pavilion</i>
11.50 am – 12.10 pm	Session 7: The CVBM Debate	
11.50 am	<i>Should we look or listen? The value of Monitoring vs PROMS in predicting</i> Speakers: Ian Harris (South Western Sydney Clinical School) and Bernd Grimm (Luxembourg Institute of Health, Luxembourg)	
12.10 pm	<i>Group Photo</i>	
12.20 pm	<i>Lunch</i>	<i>The Pavilion</i>
Afternoon	Free Time	
6.00 pm	Conference Dinner <i>Coaches depart from the Swimming Pool</i>	<i>O'Leary Walker Winery</i>

MONDAY 2nd MARCH 2020

7.00 am onwards	Breakfast	Clare Country Club Restaurant
8.30 am – 10:20 am	Session 8: Advances in MSK Molecules and Medicines (Part 1) <i>Chair: Natalie Sims (Melbourne)</i>	Clare Convention Centre
8.30 am	<i>Clinical management of complex fractures</i> Mark Rickman (Royal Adelaide Hospital, Adelaide)	
9.00 am	<i>Facing hope with 3D printing: The use of modelling, experimentation and rapid prototyping in the development of personalised prosthetic jaw implants</i> David Ackland (University of Melbourne)	
9.25 am	<i>Translating novel treatments for MSK and soft tissue defects</i> Clair Lee (OrthoCell, WA)	
9.45 am	<i>Impact of the neck and femur fracture and their post-trauma care</i> Alice Burke (Royal Adelaide Hospital, Adelaide)	
10:20 am – 10.40 am	<i>Morning Break and room check out</i>	The Pavilion
10.40 am – 11.30 pm	Session 9: Advances in MSK Molecules and Medicines (Part 2) <i>Chair: Prof David Findlay</i>	Clare Convention Centre
10:40 am	<i>New insights into osteocyte communication via ephrins</i> Natalie Sims (University of Melbourne, Victoria)	
11.10 am	<i>The science behind romosozumab and what it means for patients</i> Dr Jeffrey Hassall, AMGEN	
11.40 am	<i>A brief history of RANKL</i> David Findlay (Adelaide)	
12.00 pm – 12.30 pm	<i>Final Lunch</i>	The Pavilion
12.30 pm	Coach departs from Clare Convention Centre	
2.30 pm – 3.15 pm	Coach arrives at Adelaide Airport (followed by Adelaide city drop off)	