



International Society
Of Limb Salvage



Scientific Program

Affiliated with

8-11 October 2024



Brisbane Convention & Exhibition Centre

Brisbane | Queensland | Australia



Francis J. Hornicek

President

Dear esteemed colleagues, distinguished guests, and friends of ISOLS,

The International Society of Limb Salvage (ISOLS) was established in Rochester, MN, USA, in 1981. This organisation is comprised of scientists and clinicians from around the world. It is truly multi-disciplinary and diverse in its representation and efforts. These include research, education, and the critical evaluation of our patient outcomes. I am proud to serve as President and even prouder to work with such an outstanding ISOLS Board and represent this wonderful organisation.

We hope that this message finds you, your family, and your loved ones safe and well. We are looking forward to seeing you at the General Meeting of ISOLS in Brisbane, Australia, where Professor Peter Steadman has arranged an exciting meeting. This gathering marks a significant moment in the field of limb salvage, where experts and innovators from across the globe come together to exchange knowledge, share experiences, and advance our collective mission of enhancing the quality of life for patients facing limb-threatening conditions.

I would like to extend my heartfelt appreciation to the ISOLS Board, organising committee, sponsors, and volunteers who have dedicated countless hours to make this event possible. Your efforts will ensure that this conference is a platform for excellence and a catalyst for progress.

In closing, I invite you to embrace this opportunity to expand your horizons, network with like-minded professionals, and contribute to the global mission of ISOLS. Together, we will make a difference in the lives of those who rely on our expertise.

Thank you for being a part of this remarkable gathering, and I wish you all a productive, enriching, and memorable Australia-Brisbane ISOLS Meeting in 2024.



Peter Steadman

Conference President

As Brisbane prepares for the 2032 Olympics, it is a great opportunity to visit Australia and Brisbane as this city is undergoing vibrant development in readiness. Just as the Olympics is the world's premier sporting event, we aim to make the ISOLS 2024 meeting the premier event in the calendar for sarcoma and musculoskeletal tumour practitioners.

In line with the Society's purpose to promote research, education, and improvements in clinical practice and care of patients with musculoskeletal tumours or undergoing limb salvage interventions, we have planned for an intellectually exciting academic and problem-focused meeting - engaging our different members from clinical, research and engineering backgrounds, whilst also embracing our international membership and diversity.

Our academic program has been formulated to bring a dynamic discussion platform to address the most modern contemporary unresolved and topical issues facing us in a rapidly changing world to help develop global consensus positions. The meeting, as always, provides an ideal opportunity for important intellectual discussion and knowledge exchange between physicians, engineers, researchers, sarcoma scientists as well as allied health and nursing faculties and also for sarcoma caregivers of all ages from all corners of the globe.

We will continue to grow the Younger Surgeon's Forum and expand the meeting to include more diversity. We will offer an orthopaedic oncology instructional course lecture program where one can hear from some of the world's most experienced surgeons, who will provide gems of practical experience in how to plan and perform difficult and challenging surgeries. Prior to start of the meeting, there will be a program for practitioners from developing countries and an opportunity to enroll separately in a world-renowned MusculoSkeletal Pathology course.

We are very excited to introduce a new paradigm for experiencing the Free Papers submitted by members. In addition to being able to attend at presentations, all free papers will be available for registrants to experience on-line at a timing of their choosing - eliminating the need to choose between one session or another. Every talk will be able to be attended in live or virtual format. We will host on-line discussion forums for papers and an opportunity for critique and interaction with a panel of distinguished professors from around the world at a breakfast meet at the start of each day.

Scientific Program

On behalf of the Australasian Scientific Committee, I would like to extend a warm welcome to all delegates for ISOLS 2024. In constructing the scientific program we have deliberately endeavoured to engineer a program that will maximise learning opportunity and still provide for social interaction, which is the lifeblood of international collaboration and cooperation within our tightknit community. The program is designed to provide an intense series of sessions early in the day before mental fatigue sets in with earlier finishes than previous meetings to allow for social interaction. We hope that you will have ample opportunity to sample all that Brisbane has to offer during your stay. The program has been designed as a series of mini-symposia focusing on issues that we face in day-to-day tumor practice. Many have been selected as areas of ongoing controversy where we seek to help drive consensus on best practice and help to define how we communicate with each other in terms of clinical outcomes. Each mini-symposium will deliver concise insights from a diverse panel of experts selected from around the globe. We aim to make the sessions interactive and by the meeting's end we hope that we can use the ISOLS 2024 meeting as a launching platform for areas of international discussion and collaboration to advance our discipline.

Running alongside the mini-symposia there will also be free scientific papers from our membership around the world. These will be held both in a live and virtual format as outlined in the section below.

The ISOLS 2024 coincides with the annual scientific meeting of the Australia & New Zealand Sarcoma Association (ANZSA) which will be running concurrently on the final 2 days of the program. We will also be hosting a concurrent session for Nursing & Allied Health practitioners, with an opportunity for registrants to complete an accredited psychological counselling course, targeted for those working with cancer patients and their families. Another concurrent session provides a forum for our other valued community stakeholders including patients and volunteers

Gerard Powell - ANZ Program Director

Val Lewis, Peter Rose, Peter Steadman - Abstract Management Committee

Free Scientific Papers

For the 2024 ISOLS Meeting the Scientific Secretariat has instituted a new format, designed to allow all delegates to attend all of the accepted free papers without having to move from room to room. All presenters will pre-record their talks which will be uploaded to a portal accessible to all registrants of the ISOLS 2024 meeting in advance of the commencement of the meeting.

During the course of the meeting there will be chat rooms to allow registrants to ask questions of the authors and to promote discussion. The intention is to make every free paper accessible to each registrant and to allow sufficient time for discussion of papers without constraint. The scientific secretariat will be monitoring the “chat” and selecting the papers which are generating the most interest and discussion for more in-depth review at daily “Meet the Professors” breakfast sessions which will be provided with breakfast before the start of each day’s symposia on the Unsolved Questions in Sarcoma. We will have a panel of distinguished professors from around the world to give comment and drive discussion and debate at these sessions.

In addition, presenters who would also like to deliver their paper on a podium will have the opportunity to do so in the M1 lecture theatre. These sessions will run concurrently with the main auditorium symposia for those who would like to deliver / attend the free papers in this fashion

On the final day of the meeting there will be an opportunity for speakers selected by the Scientific Secretariat as the most outstanding papers to present in front of the whole meeting in the main auditorium with questions and answer opportunities before awarding prizes for the best papers

We are excited to trial this new format to allow unfettered access for delegates to all parts of the scientific program and eliminate the need to be scurrying from lecture theatre to lecture theatre to be able to attend those aspects of the program which are of most interest to delegates.

We invite you to sample some Aussie and Kiwi hospitality in Brisbane. We know that for many it is a long way to come but it will be a great opportunity to explore “Down Under” and we look forward to ensuring you have a memorable meeting and a wonderful stay.

ANZ Faculty & ISOLS educational committee

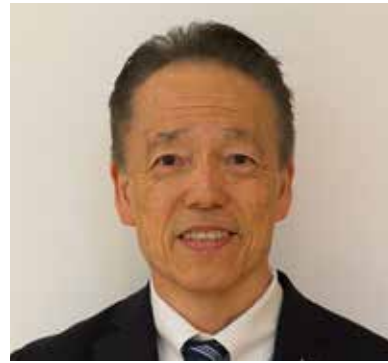
 AUSTRALIA Claudia Di Bella Dan Franks David Wood Gerard Powell Grant Pang Ian Dickinson Jacob Jagiello Lucas Annabelle Luke Johnson Mark Clayer Martin Lowe Maurice Guzman Paul Stalley Peter Choong Philip Rowell Richard Boyle Richard Carey-Smith Sarah O'Reilly-Harbridge Scott Sommerville Stewart Morrison	 AUSTRIA Gerhard Hobusch	 CHINA Hairong Xu	 COLUMBIA Francisco Linares	 ECUDOR Juan Zumarraga	 INDIA Manish Agarwal
 ITALY Andrea Angelini	 NEW ZEALAND Andy Graydon Andy Johnston Gordon Beadel Josh Kempthorne Mike Flint Shaneel Deo	 UNITED KINGDOM Ather Siddiqi Duncan Whitwell	 UNITED STATES Val Lewis		



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Mirko Büttner
Position: Industry Liaison,
Implantcast (Germany)



Christina D'Anjou
Position: Industry Liaison,
Stryker (USA)



ISOLS Association
Management Company

Information

Venue	Brisbane Convention & Exhibition Centre, Merivale Street entrance	
Scientific Sessions	Great Hall 1 (aka Q1), M1 and M2 - Mezzanine Level	
Registration Desk	Located in the Foyer Level, Merivale Street entrance	
	Tuesday 8 October	6.30am–5.00pm
	Wednesday 9 October	6.00am–4.00pm
	Thursday 10 October	6.00am–4.00pm
	Friday 11 October	6.00am–4.00pm
Exhibition Area	Located on the Mezzanine Level outside Great Hall 1	
	Tuesday 8 October	6.30am–3.00pm
	Wednesday 9 October	6.30am–3.00pm
	Thursday 10 October	6.30am–3.00pm
	Friday 11 October	6.30am–3.00pm
Speakers Pre Room	Located on the Mezzanine Level, M10	
	Tuesday 8 October	6.00am–4.00pm
	Wednesday 9 October	6.00am–4.00pm
	Thursday 10 October	6.00am–4.00pm
	Friday 11 October	6.00am–4.00pm
Namebadges	Please wear your name badges during the meeting	
Catering	All catering will occur in the Exhibition Area	
App	To download the conference app click on the QR code and enter your ISOLS 2024 registered email address and password you would you been provided - if you cannot locate your password email info@isols2024.org	
		
Wifi	Free Wi-Fi is available in the centre, The free Wi-Fi is designed for web browsing and checking web based emails.	

Social Functions

Tuesday 8 October 2024

Welcome Cocktail Function

Venue:	Mezzanine Level outside Great Hall 1, Brisbane Convention & Exhibition Centre
Time:	5.30pm - 7.30pm (after the Opening Ceremony)
Dress:	Business Attire
(Included in registration, select to attend when registering)	

Wednesday 9 October 2024

President's Dinner

Venue:	Brisbane Town Hall
Time:	6.30pm - 10.30pm
Dress:	Black Tie
(Invitation only)	

Thursday 10 October 2024

Women of ISOLS Cocktail Party

Time:	6.00pm - 7.00pm
Venue:	Plaza Ballroom Foyer - Brisbane Convention & Exhibition Centre

Gala Dinner

Time:	6.30pm - midnight
Venue:	Plaza Ballroom, - Brisbane Convention & Exhibition Centre
Dress:	Tropical Chic
(Register to attend: Cost \$180)	

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Scientific Program

**22nd General Meeting of ISOLS
8-11 October 2024**

**Brisbane Convention & Exhibition Centre
Brisbane, Queensland, Australia**

www.isols.com

Email: info@isols2024.org



Pre - ISOLS2024

2024 William F. Enneking Musculoskeletal Pathology Course

Friday – Sunday 4-6 October 2024

8.00am - 5.30pm

Room M1

Brisbane Convention & Education Centre

Faculty

Prof Mark T. Scarborough MD, University of Florida, USA

Dr André Spiguel MD, University of Florida, USA

Dr Zak Kanaan, FRCPA St Vincent's Hospital, Melbourne, Australia

Mr Gerard J. Powell FRACS, University of Melbourne, Australia

Mr Grant Pang FRACS, Peter MacCallum Cancer Institute, Melbourne Australia

Prof Richard Carey Smith FRACS, University of Western Australia

Course Overview

This three-day seminar is an immersion experience in basic musculoskeletal pathology, correlated with radiographic imaging and staging techniques, histologic diagnosis, and principles of treatment covering the gamut of musculoskeletal lesions.

This is the fifth time that this premier course has been offered in Australia and it represents a unique opportunity for registrars and consultants in the fields of Orthopaedics, Pathology & Radiology

Each day begins with a key presentation followed by a morning session concerning specific subjects taught by case presentation that includes microscopic study of the pertinent histologic slides and interactive computer assisted instruction.

Experienced musculoskeletal pathologists and orthopaedic surgeons are available for individual instruction throughout these sessions. Discussion cases are available for study during the session and an interactive discussion between faculty and participants focused on the treatment of the subjects under consideration concludes the session.

The afternoon session is a duplicate of the morning session; presentation of case materials, histologic slides, and computer assisted instruction of the subjects under consideration, followed by discussion of the treatment focused discussion cases.

The day concludes with an interactive discussion between participants and instructors concerning the diagnosis and management of the day's unknowns.

Proudly supported by ISOLS Auspices and the Australia & New Zealand Sarcoma Association

Additional Registration & Payment is required to attend the above course

Registration for this course is
separate from ISOLS 2024 registration.
Use the QR code to register.
Spots are limited, so don't delay if you
wish to attend.



Pre - ISOLS2024

Younger Surgeons Forum

**Attendance is exclusively for those registered
as Young Fellows or Surgeons in Training for ISOLS 2024.**

Monday 7 October 2024

12.30pm - 5.30pm Room M2 Brisbane Convention & Exhibition Centre

Theme: Osteosarcoma **Convenor:** Philip Rowell

- 12.30pm - 1.45pm Osteosarcoma subtypes and how it changes my management.
Moderator James Flint (San Diego)
Speakers Jay Wunder (Toronto) | Yingqi Hua (Shanghai)
- 1.45pm - 2.45pm Resection planning, what imaging do I use pre and post neoadjuvant treatment. How I deal with abutment of critical structures. Does imaging chemo response change my management? What now – post critical structure abutment resection in setting of poor chemo response?
Moderator Alysia Kemp (United States)
Speakers Justin Bird (Texas) | Ajay Puri (India)
- 2.45pm - 3.15pm Afternoon Tea
- 3.15pm - 4.45pm Osteosarcoma difficult cases, resection and reconstruction philosophies.
Moderator Manuel Medellin (Colombia)
Speakers Andre Spiguel (USA) | Lee Jeys (Birmingham),
Mariel Spense (Argentina)
- 4.45pm - 5.30pm Oligometastasis on presentation and recurrent osteosarcoma. Timing of metastasectomy and role of chemotherapy and resection.
Moderator Harsha Tadala (India)
Speakers Vivek Bhadri (Australia) | Morgan Windsor (Australia)
- 6.30pm - 9.30pm Younger Surgeons Dinner - Emporium Hotel South Bank (Invitation Only)



Pre - ISOLS2024

Developing Countries Educational Program

Attendance is exclusively by invitation only.

Monday 7 October 2024

8.30am - 5.30pm Room M1 Brisbane Convention & Exhibition Centre

Faculty: David Wood, Perth Australia
Duncan Whitwell, Oxford UK
Ather Siddiqi, Oxford UK
Max Gibbons, Oxford UK
Valerae Lewis, Houston USA

This course is linked to an online interactive open access course that includes the following topics:

1. Clinical presentation of Musculoskeletal Tumours
2. Aetiology and natural history
3. Staging
4. Principles of Biopsy
5. Principles of sarcoma surgery
6. Imaging of Musculoskeletal tumours
7. Principles of Radiation Therapy
8. Principles of Chemotherapy
9. Psychological aspects of management

The face-to-face course will cover the more complex issues in sarcoma management with an emphasis on case-based discussions.

The topics will include:

1. Amputation v Limb Salvage
2. Management of Osteosarcoma
3. Management of Cartilaginous tumours
4. Classification and management of soft tissue sarcomas
5. Pelvic resections and reconstructions
6. Infection and sarcoma
7. Sarcoma Genomics
8. Management of Ewing's sarcoma
9. Management of metastatic disease
10. Amputation or biological reconstruction, what can be achieved.
11. Soft tissue reconstruction after sarcoma surgery
12. Establishing a sarcoma service in a developing country

6.30am Registration & Exhibition Viewing

Plenary - Scientific Symposia (Room Q1)

- 7.30am

Meet the Professors - Best free papers interaction (Room M1)
Breakfast inclusive session
Moderator – Peter Choong
- 8.30am

Meeting Opening – Welcome
Francis Hornicek / Peter Steadman
- 9.15am

Session 1
Co-Chairs

Functional Outcome Scoring - Time For a New Approach?
Jake Jagiello / Gerhard Hobusch / Val Lewis
- 10.30am

Session 2
Co-Chairs

Chondroid Tumours - BOOM Consensus Findings
Lee Jeys/ Richard Boyle
- 12.00pm

Refreshment Break
- 12.30pm

Session 3
Co-Chairs

Consensus on Reporting Surgical Complications
Duncan Whitwell / Ather Siddiqi / Emmy Nyqvist
- 1.45pm

Sponsor Lunchtime Symposium – Novagenit Australia
- 2.45pm

Session 4
Co-Chairs

3D Printed Custom Pelvic Implants
Richard Boyle / Sarah O'Reilly-Harbridge / Panos Papagelopoulos / Daniel Franks
- 4.00pm

Free time before Opening Ceremony

4.30pm Opening Ceremony

5.30pm - 7.30pm
Welcome Reception
Brisbane Convention & Exhibition Centre

Concurrent Session

Free Paper Podium Presentations (Room M1)

- 9.15am – 10.35am

Moderators: Sarah O'Reilly-Harbridge, Eduardo Botello
- 10.35am – 12.00pm

Moderators: Andrea Angelini, Josh Kempthore

Instructional Course Lectures (Room M2)

- Session 1.

Chairs: Grant Pang, Richard Carey Smith
- 9.30am

Proximal Tibial Resection / Replacement
Peter Ferguson, Canada
- 10.00am

Reconstructing the Knee Extensor Mechanism
Juan Pablo Zumarraga, Brazil
- 10.30am

Reverse Shoulder Arthroplasty for Tumour
André Spiguel, USA
- 11.00am

Managing Megaprosthesis Joint Infection.
Mike Parry, UK
- 11.30am

Rotationplasty
Stewart Morrison and Lucas Annabell, Australia
- 12.00pm

Refreshment Break
- Session 2.

Chairs: Martin Lowe / Maurice Guzman
- 12.30 pm

Computer Navigated Tumour Resection.
KC Wong, HK China
- 1.00pm

Internal Hemipelvectomy.
Lee Jeys, UK & Arne Streitbuerger, Germany
- 1.30pm

Anterior Flap Hindquarter Amputation.
Pietro Ruggieri, Italy
- 2.00pm

Proximal Femoral Resection/Replacement.
Ashish Gulia, India
- 2.30pm

Distal Femoral Resection/Replacement.
Mike Flint, New Zealand

6.30am - 7.30am **Meet the Professors - Best abstracts interaction (Room M1)**
Breakfast inclusive session Moderator - Richard Boyle

Plenary - Scientific Symposia (Room Q1)

7.30am	Session 5 Co-Chairs	Can We Agree on Definitions of Surgical Margins? Gerard Powell Andy Johnston Manish Agarwal
8.45am	Session 6 Co-Chairs	Amputees - The Forgotten Cohort. Mike Flint Gerhard Hobusch Val Lewis David Wood
10.00am	Morning Tea	
10.30am	Session 7 Co-Chairs	Operating at the Edge - A Journey Into The Future Shaneel Deo Claudia Di Bella Hairong Xu Duncan Whitwell Ather Siddiqi
11.45am	Session 8 Co-Chairs	Artificial Intelligence and Sarcoma Care. Jake Jagiello Maurice Guzman
1.00pm	Sponsor Lunchtime Symposium - Adler Orthopaedics	
2.00pm	Free Time	

Concurrent Session

Free Paper Podium Presentations (Room M1)	
2.00pm – 3.38pm	Moderators: Val Lewis, Ather Siddiqi
3.43pm – 5.25pm	Moderators: Gerhard Hobusch, Ellie Houghton
Nurses and Allied Health Day (Room M2)	
8.00am	Welcome and House Keeping - Natalie Karlovic
8.10am	Models of Care - Jean Windsor and Rebecca Martln
8.30am	Special Interest Group Meeting - Natalie Karlovic/Jean Windsor/Rebecca Martln
9.00am	National Rehabilitation Guidelines in Musculoskeletal Oncology: A Case Study Kate Scanlan (Stanmore) OT/ Shea Byrne (Stanmore PT)
9.30am	Prehabilitation in Paediatric Sarcoma Patients - Claire Laurie (RCH) PT
10.00am	Morning Tea
10.30am	Rotationplasty Surgery- Dr Martin Lowe (QCH/PAH)
11.10am	Life following sarcoma surgery: A qualitative research update - Kate Scanlan (Stanmore) OT and Shea Byrne (Stanmore) PT
11.40am	Updates on Prosthesis - Rachel Pola and Jessica Angus
12.10pm	Minimally Invasive Treatment of Pelvic Metastases - Francis Lee
12.50pm	Questions and Discussions
1.00pm	Lunch
Sock it to Sarcoma Workshop (M5 & M6)	
12.00pm – 5.00pm	Communication Skills Training for Health Professionals Working with people diagnosed with Sarcoma and their Carers

Separate Registration required - Workshop capped at 8 PAX
[CLICK HERE](#)

6.30pm - 10.30pm
Presidents Dinner
(Invitation only)



6.30am - 7.30am

Meet the Professors - Best abstracts interaction (Room M1)
Breakfast inclusive session

Moderator - Richard Carey Smith

Plenary - Scientific Symposia (Room Q1)

		<div><div>ISOLS</div><div>International Society Of Limb Salvage</div></div> <div>Shared Session</div> <div><div>ANZSA</div><div>Australia and New Zealand Sarcoma Association</div></div>
7.30am	Session 9 Co-Chairs	Not Just Little Adults - Current Issues in Paediatric Orthopaedic oncology Peter Steadman Martin Lowe Andrew Graydon Natacha Omer
8.45am	Session 10 Co-Chairs	Metastatic Bone Disease Josh Kempthore Ather Siddiqi Manish Agarwal Claudia Di Bella
10.00am	Morning Tea	
10.30am	Session 11 Co-Chairs	The Role of RTX in Low Grade Sarcoma Grant Pang Val Lewis Mihir Shanker
11.45am	Session 12 Co-Chairs	Timing of Surgery in Ewing Sarcoma Stewart Morrison Richard Carey Smith Andrea Angelini Ather Siddiqi Juan Pablo Zumarraga
1.00pm	Sponsor Lunchtime Symposium - Implantcast "Update on Treatment Strategies Using MegaProstheses"	
2.00pm	Free Time	
2.00pm	Australia & New Zealand Sarcoma Association ASM commences in M2	

Concurrent Sessions

Sarcoma Community Connection - Convenor Sarah Cheung			(Room M2)
9:00am	Welcome & opening remarks		Sarah Cheung
9:15am	Patient experience		Harry Mullen
9:25am	Current ANZSA sponsored ewing sarcoma trials		Marianne Phillips
9:35am	Pathology – We’ve got your back		Fiona Maclean
9:45am	Surgery & reconstruction techniques for ewings		Richard Boyle
9:55am	Radiation therapy dose & technique for ewings		Angela Hong
10:05am	Taking care of carers		Susan Johnson
10:15am	Morning Tea & Networking		
10:45am	Patient experience		Peter Flaskas
10:55am	Choose your own workshop		
	Option 1: Meditation & reflective space	Karen Thrussell & Natalia Dewiyani	
	Option 2: Explore and Connect. An art psychotherapy approach to self-awareness and self-care	Kate Palmer	
11:30am	Patient experience	Kaela Graham - Bowman	
11:45am	Closing remarks		Sarah Cheung
12:00pm	Lunch ANZSA Poster Viewing Session		
Australia & New Zealand Sarcoma Association Annual Scientific Meeting			(Room M2)
2.00pm	Welcome		David Gyorki
2.05pm	Collaborating for Global Impact-an evolving journey		Jayesh Desai
Session - Collaboration		Co-Chairs	Natacha Omer & Fiona Maclean
2.30pm	Martin Tattersall Lecture		Nathalie Gaspar
3.05pm	The importance of recognized networks to improve sarcoma care in Oceania		Joanna Connor
3.25pm	SU2C-SARC032: A randomized trial of neoadjuvant RT and surgery with or without pembrolizumab for soft tissue sarcoma		Angela Hong
3.45pm	International collaboration in retroperitoneal sarcoma - progress, plans and opportunities		David Gyorki
4.05pm	Afternoon Tea		
4.20pm	The Great Debate Should all patients with sarcoma be enrolled on a clinical trial?" Con: Joanna Connor Pro: Marianne Phillips Moderator: David Gyorki		
Session - Multidisciplinary approaches to sarcoma		Co-Chairs	Vlad Andelkovic and Martin Lowe
4.50pm	Radiology of retroperitoneal sarcomas		Wendy Brown
5.05pm	Radiation oncology progress in sarcoma		David Pryor
5.20pm	Improving outcomes for adolescents and young adults with sarcoma		Jeremy Lewin
5.35pm	Panel discussion - MDT models of care and collaboration		
5.45pm - 6.45pm ANZSA Annual General Meeting			

6.00pm - 7.00pm

Women of ISOLS Cocktail Party

Brisbane Convention & Exhibition Centre

7.00pm - midnight

Gala Dinner

Brisbane Convention & Exhibition Centre



Plenary - Scientific Symposia (Room Q1)



7.00am	Session 13	Best of Free Papers #1 Co-Chairs Gordon Beadel Shekhar Kumta Rob Pollock
8.45am	Session 14	Cancer Registries and Sharing Data Co-Chairs Luke Johnson Peter Rose
10.00am	Morning Tea	
10.30am	Session 15	Best of Free Papers #2 Co-Chairs Shekhar Kumta Frank Traub Lester Chan
11.15am	Session 16	Personalised and Precision Therapies Co-Chairs David Wood Hairong Xu Francisco Linares
1.00pm	Sponsor Lunchtime Symposium Boehringer - Ingelheim "Sarcoma - A year in review: Targeted therapies"	
2.00pm	Australia & New Zealand Sarcoma Association Annual Scientific Meeting Commences in M2	
2.00pm	ISOLS General assembly <ul style="list-style-type: none">- Summary of Polls, What Have We Learned?- Future Directions & Strategic Plan- Prizes & Awards- AGM & Presidential Handover- Farewell	

Concurrent Sessions



Australia & New Zealand Sarcoma Association Annual Scientific Meeting (Room M2)

Session - Translational Research		Co- Chairs	Maya Kansara and Madeleine Strach
2.00pm	Osteosarcoma : turning point to implement biology in clinical practice ?		Nathalie Gaspar
2.25pm	Empowering the immune system: harnessing natural killer cells against sarcoma		Natacha Omer
2.40pm	CD8+ T cell tolerance and immune evasion in retroperitoneal sarcoma		Ian Parish
2.55pm	Advanced diffusion MRI of bone and soft tissue tumours		Minh-Son To
3.10pm	Precision medicine in soft tissue sarcomas		Paul Huang
Session - 5 x Rapid Fire Papers		Co- Chairs	Rick Walker
3.30pm	Can proteomics predict metastatic relapse in leiomyosarcoma?		Elizabeth Connolly
	Development of an 8 protein signature in a >350 sample study including a validation cohort		
3.35pm	Advanced immunopeptidomics reveals novel HLA-Bound peptide targets for precision immunotherapy in ewing sarcoma		Pouya Faridi
3.40pm	Real world clinical utility of next generation sequencing in adolescent and young adult sarcoma patients		Karan Gupta
3.45pm	Using muscle magnetic resonance imaging to predict physical outcomes in paediatric musculoskeletal sarcoma: An observational study.		Claire Laurie
3.50pm	Dynamic evaluation of a humanized bone tumour microenvironment to study osteosarcoma primary tumour remodelling and lung metastasis development		Jacqui McGovern
3.55pm	Choong Dickinson Poster Prize		
4.15pm	Closure		Natacha Omer

Session Programs

Brisbane Convention & Exhibition Centre

Session 1	Functional Outcome Scoring – Time for a New Approach? Co-Chairs Jake Jagiello / Gerhard Hobusch / Val Lewis Establishing Outcome Programs: How to incorporate into your practice What kind of validated tools are available - PROs versus CRO's? How to objectively assess the outcome? Wearables? Importance of Pre-hab Health economics and quality of life in patients with extremity bone sarcoma. Perspectives from a Patient now turned Treatment specialist - Q&A session Radiation oncology registrar and Sarcoma Survivor	Shalin Patel Joe Schwab Vs Adam Levin Alex Penny Ann No and Alex Penny Liam Fernando-Canavan Jake Jagiello Stephanie Webster	Session 8	Artificial Intelligence and Sarcoma Care Co-Chairs Jake Jagiello / Maurice Guzman Artificial Intelligence in the 21st Century Clinical Applications of AI in Orthopaedics and Surgery The Role of AI in Pathological Diagnosis Machine Learning Algorithms in Large Scale Data & Clinical Spectroscopy AI in Radiology for Sarcoma Diffusion Weighted MRI, AI and Imaging of Sarcomas Discussion	Qi Wu Prakash Jayakumar Fiona Maclean Shekhar Kumta Thomas Lloyd Minh-Son To
Session 2	Chondroid Tumours – BOOM Consensus Co-Chairs: Richard Boyle / Lee Jeys What is BOOM? Chondrosarcoma results PJI results Understanding the global perspective Future Chondrosarcoma studies Future PJI studies BOOM 2026 Case Based Panel Discussion (Walid Ebeid, Minna Laitinen & Tomas Zamora)	Lee Jeys Ajay Puri Pietro Ruggieri Eduardo Botello Matthew Houdek Zeeshan Khan Keith Hoskins	Session 9	Not Just Little Adults - Current Issues in Paediatric Orthopaedic Oncology Co-Chairs: Peter Steadman / Martin Lowe / Andrew Graydon / Natcha Omer Growing Implants Paediatric Resection Navigation Challenges in Pediatric Bone sarcoma to accelerate new drug introduction in first line Case Based Panel Discussion	Bartosz Pachuta KC Wong Nathalie Gaspar
Session 3	Consensus on Surgical Complications Reporting Co-Chairs: Duncan Whitwell / Ather Siddiqi / Emmy Nyqvist Historical of Henderson Classification ISOLS president Overview of Henderson Classification and Limitations Case based discussion on Soft tissue sarcoma complication Case based discussion on Bone Sarcoma complication Solutions: Infection Coating Solutions: Osseointegration Solutions: Scoring system soft tissue Discussion Summary -Moving on	Francis Hornicek Emmy Nyqvist Peter Ferguson Duncan Whitwell / Ather Siddiqi Imran Khan Gordon Blun (pre-record) Peter Ferguson / Duncan Whitwell	Session 10	Metastatic Bone Disease Co-Chairs: Josh Kempthore / Ather Siddiqi / Manish Agarwal / Claudia Di Bella Decision making, Nomograms, Predictive Scoring Metastatic Bone Guidelines / National Pathways A Promise to our Patients with Metastatic Bone Disease Role of Minimally Invasive AORIF in First Line Management Case Based Panel Discussion	Minna Laitinen Rob Pollock R. Lor Randall Francis Lee
Session 4	3D Printed Custom Pelvic Implants Co-Chairs Richard Boyle / Sarah O'Reilly-Harbidge / Panos Papagelopoulos / Daniel Franks Where are we now? Europe - Panos Papagelopoulos / USA - Krista Goulding / APAC - Vivek Ajit Singh What are the problems/solutions? : How much tech do I need ? Planning/Nav/Guides What approach to use / how to get it in? Does engineering matter / design / fixation / how to keep it in! Should we close the ring?.. Front and back? From the engineers: What does the future hold? Adler Ortho SpA / Zimmer Biomet / Brain Lab / Implantcast / Signature Ortho Expert Panel - Lee Jeys / Pietro Ruggieri / Paul Stalley / Doris Wenger + Co - Chairs	Richard Carey Smith Daniel Kotrych Daniel Franks Scott Sommerville	Session 11	The Role of Radiation Therapy in Low Grade Soft Tissue Sarcoma Co Chairs: Grant Pang / Valerae Lewis / Mihir Shanker Radiotherapy in Low-Grade Retroperitoneal Sarcoma Radiotherapy in Low Grade Extremity Sarcoma Debate. Stephen Thompson (radiation oncologist) vs Ajay Puri (Surgeon) Panel Case Based Panel Discussion	Mihir Shanker Andrew Bishop (pre-record)
Session 5	Can We Agree on Definitions of Surgical Margins? Co-Chairs Gerard Powell / Andy Johnston / Manish Agarwal The history of planned surgical margins Current Thoughts on Surgical Margins Accuracy of Radiology in Surgical Margins Quality of Margins according to Tissue Type A pathologists view of surgical margins Agreeing on Margins for National Database Case Based Panel Discussion	Mark Scarborough Michael Parry Thomas Lloyd Keisuke Ae Fiona Maclean Benjamin Miller	Session 12	The Timing of Surgery in Ewing Sarcoma Co-Chairs: Richard Carey Smith / Stewart Morrison / Andrea Angelini / Ather Siddiqi / Juan Pablo Zumarraga Introduction to session 3 Cases (Easy, Medium, Hard) Current surgical practice and principles Current Practice-Medical oncology Current Practice-Rad onc Complications of Surgery Clinical cases re discuss and vote until time is up with summary-RCS/Panel	Richard Carey Smith Stewart Morrison Milton Ghosh Annie Ryan David Pryor Lee Jeys
Session 6	Amputees - The Forgotten Cohort Co-Chairs: Mike Flint / Gerhard Hobusch / Valerae Lewis / David Wood Microvascular and neural echniques (OI, TMR, RPNI, AMR) to complement amputation Osseointegration Techniques Mind Controlled Prosthetics Importance of Multidisciplinary Team (physiotherapist, psychologist, prosthetist) Long-term Patients & Physician discussion	Meg Rouboard Benjamin Kyle Potter Doug Smith Shani Jackman Richard Gorlick, Kurt Weiss Adam Deans	Session 13	Best of Free Papers #1 Co Chairs: Shekhar Kumta / Gordon Beadel / Rob Pollock	
Session 7	Operating at the Edge; A Journey into the Future Co-Chairs: Shaneel Deo / Claudia Di Bella / Hairong Xu / Duncan Whitwell / Ather Siddiqi Advanced Imaging Techniques including Functional Stem Cell and 3-D Modelling 3D-printing Moving to Augmented Reality Improving Bone Margins – Navigation Technology to Improve Intra-op Soft Tissue Margin Robotic Sarcoma Surgery	Thomas Lloyd Claudia DiBella Ather Siddiqi KC Wong Kenny Rankin John Healey	Session 14	Cancer Registries and Sharing Data Co-Chairs: Luke Johnson / Peter Rose The Status of Data Collection in the USA The Status of Data Collection in Europe The Status of Data Collection in South America Barriers and Data Collection Equity Across the Globe Historical Data and Migration to New Systems Panel Discussion - Data Dictionaries & WHO position on Data Sharing	Ben Miller Andreas Leithner Marcus Galli Ferdiansyah Mahyudin Susie Bae
			Session 15	Best of Free Papers #2 Co-Chairs: Shekhar Kumta / Frank Traub, / Lester Chan	
			Session 16	Personalised and Precision Therapies Co-Chairs: David Wood, Hairong Xu, Francisco Linares Introduction Screening directed by hereditary cancer risk The role of liquid biopsies in sarcoma Management Establishment, characterisation and profiling of osteosarcoma models Unlocking the anti-cancer immunity: Advancements in immunotherapy against sarcoma Outsmarting Sarcoma	David Wood Mandy Ballinger Rodrigo Cardoso Jacqui McGovern Fernando Guimares David Thomas (pre-record)



Session 13 Friday 11 October 2024

7.00am - 8.52am (Room Q1)

Co Chairs Shekhar Kumta | Gordon Beadel | Rob Pollock

- 7.00am Introduction
- 7.04am **Krista Goulding** - What are the implant revision-free survival and infection-free survival outcomes for patients undergoing custom three-dimensional (3D) printed or machined hemipelvis reconstruction for massive pelvic defects? A multi-centre, international study of 206 patients
- 7.10am **Ryo Katsuki** - Pulmonary metastatic-related microRNA in osteosarcoma
- 7.16am **Chuangzhong Deng** - Osteosarcoma cells derived extracellular vesicles mediate lung premetastatic niche formation by reprogramming lung interstitial macrophages
- 7.22am **Alexander Klein** - Raised metal-ion concentrations after tumor resections and reconstruction with megaprotheses around the knee joint
- 7.28am **Lee Jeys** - Dedifferentiated chondrosarcoma of the pelvis: A hopeless malignancy?
- 7.34am **Xiaobo Yan** - Efficacy of synthetic mesh reconstruction for pelvic floor function after sacrectomy? A preliminary clinical assessment
- 7.40am **Krista Goulding** - Comparison of functional outcomes, all-cause revision and infection-free survival in patients undergoing custom 3D hemi pelvis reconstruction after internal hemipelvectomy or revision arthroplasty for massive pelvic defects
- 7.46am **Yuta Taniguchi** - Risk factors of patellofemoral osteoarthritis after distal femur endoprosthesis reconstruction
- 7.52am **Brooke Crawford** - Oxygenation of Hypoxic Bone Sarcomas with a Novel Nanoparticle
- 7.58am **Lukas Nystrom** - Tissue Perfusion and Wound Complications following Soft Tissue Sarcoma Resection
- 8.01am **Lukas Nystrom** - Matched Cohort Analysis of Ultra-Hypofractionated Preoperative Radiation Therapy versus Standard Fractionation in the Treatment of Soft Tissue Sarcoma -
- 8.04am **Lukas Nystrom** - Cemented vs. Uncemented Hip Arthroplasty for Proximal Femoral Metastatic Bone Disease: A Multicenter Analysis of 264 Cases
- 8.10am **Thomas England** - Elevated Serum Metal Ions in Patients with Hip & Knee Megaprotheses: Prospective Cohort Study and Implications for Surveillance.
- 8.16am **Chuangzhong Deng** - MOF@COF Nanocapsules Enhance Soft Tissue Sarcoma Treatment: Synergistic Effects of Photodynamic Therapy and PARP Inhibition on Tumor Growth Suppression and Immune Response Activation
- 8.22am **Mikaela Sullivan** - Comparison of reconstructive techniques for non-primary malignancies in the proximal humerus -
- 8.28am **Fan Tang** - Patient-Derived Tumor Xenografts Plus Ex Vivo Models Enable Drug Validation for Tenosynovial Giant Cell Tumors
- 8.34am **Mauricio Etchebehere** - Comparison of PET/CT images with 18F-FDG and 18F-PSMA-1007 in musculoskeletal tumors to evaluate the potential of theranostics approach. -
- 8.40am **Zhenfeng Duan** - Cyclin-dependent kinase 7 (CDK7) expression in chordoma: a novel therapeutic target -
- 8.52am Session concludes

Session 15 Friday 11 October 2024

10..30am - 11.15am (Room Q1)

Co Chairs Shekhar Kumta | Frank Traub | Lester Chan

- 10.30am Introduction
- 10.31am **Alexander Lazarides** - Understanding the influence of chimeric antigen receptor T-cell therapy on fracture risk of patients with multiple myeloma
- 10.37am **Jun-Qiang Yin** - Tumor-informed deep sequencing of ctDNA detects minimal residual disease and predicts relapse in sarcoma
- 10.43am **Krittawat Suwanpukdee** - Surgical Site Infection in Soft Tissue Sarcoma Patients with 24-hour Prophylactic Antibiotic Courses versus Antibiotic Administration Until Drainage Removal: A Randomized, Double-Blinded, Non-Inferiority trial
- 10.49am **Ashley Castan** - Understanding Oligometastatic Disease in Soft Tissue Sarcomas: A Thorough Review of the Literature
- 10.55am **Chenbei Li** - Deep learning on H&E stained Pathological Images for classification of Giant Cell-rich Bone Tumors
- 11.01am **Lee Jeys** - Sacral chordoma- resect or radiate?
- 11.07am **Sudhir Kannan** - Development and validation of nomograms for predicting Early Recurrence and Metastasis in Leiomyosarcoma of trunk wall and extremities. A Multicentre data analysis.
- 11.15am Finish

Tuesday 8 October 2024	9.15am - 10.35am (Room M1)	Moderators : Sarah O'Reilly-Harbridge, Eduardo Botello
9.15am	Yong-Suk Lee - Current Concept for Treatment of Extra-Abdominal Desmoid-Type Fibromatosis: Review	
9.18am	Gabriel Li - Pressure controlled artificial pneumoperitoneum for safe ablation of abdominal wall desmoid fibromatosis	
9.21am	Ting Yu Shih - Resection for the Malignant Bone Tumors of Shoulder Girdle Region	
9.24am	Ainul Miftah Azizain - Management of Pathological Fracture Left Femur with Klippel Trenaunay Syndrome: a very rare case report	
9.27am	Raden Handidwiono - Scapular Brown Tumor Misdiagnosed as GCT in a Patient with Primary Hyperparathyroidism:A Case Report	
9.30am	Ali Farhan Pandaliday - Intraosseous Gout in the Medial Malleolus: A Case Report	
9.33am	Yuh-Ruey Kuo - Primary Pulmonary Mesenchymal Chondrosarcoma with Femoral Vein Metastasis	
9.36am	Haijie Liang - Outcomes of Sarcomas with Macroscopic Venous Tumor Thrombus Treated by Aggressive Resection with a Curative Intent: A Retrospective Study of 51 Consecutive Cases	
9.39am	Nadine Williams - Reconstruction of the tibia with bulk allograft using 3D Cutting jigs after resection of a parosteal osteosarcoma	
9.42am	Ting Yuan - A Comparative Study of 3D-Printed Mobile Ankle Prostheses and Fusion Ankle Prostheses for Distal Tibial Tumor Reconstruction: A Preliminary Analysis	
9.45am	Hong Duan - Clinical Efficacy of 3D Printing Technology Assisted Limb Malignant Bone Tumor Surgery Based on Three-Dimensional Multimodal Imaging	
9.48am	Li Min - Is 3D-printed self-stabilizing endoprosthesis reconstruction without supplemental fixation following total sacrectomy a viable approach for sacral tumours?	
9.51am	Zhuang Li - Intercalary prosthetic reconstruction with 3D-printed custom-made porous component for defects of long bones with short residual bone segments after tumor resection	
9.54am	Lars Erik Podleska - Biologic bone regeneration: Clinical results of 3D-printed, resorbable, custom-made polycaprolactone (PCL) scaffolds for biologic repair of critical-size bone defects in orthopedic oncology	
9.57am	Thomas Chow - Development of a modular 3D printed osteosarcoma model	
10.00am	Discussion	
10.35am	Session Ends	

Tuesday 8 October 2024	10.40am - 12.00pm (Room M1)	Moderators : Andrea Angelini, Josh Kempthorne
10.40am	Shengdong Wang - Effect of radiotherapy on local control and overall survival in spinal metastasis of non-small-cell lung cancer after surgery and systemic therapy	
10.43am	Mohit Dhingra - Quantification of proximal femoral lesions leading to pathological fracture under physiological load - a finite element assisted pilot study	
10.46am	Carsten Gebert - The Modified Harrington Procedure for Peri-Acetabular metastatic Lesions	
10.49am	Ching Yu Hsieh - Retrospective Review of Intramedullary Nail and Modular Proximal Femur Prosthesis in Treating Metastatic Peritrochanteric Disease at a Single Center	
10.52am	Yu-Min Lin - Freezing Nitrogen Ethanol Composite Might Help Periacetabulum Metastasis Surgery	
10.55am	Maria Anna Smolle - External validation of 9 prognostic scoring models in 862 patients with spine and extremity metastases	
10.58am	Robert Satcher - Antiresortive therapy in patients with renal cell carcinoma bone metastasis	
11.01am	Ferdiansyah Mahyudin - Clinical and Radiological Evaluation of Recycle Bone Reconstruction Using Liquid Nitrogen in Primary Malignant Bone Tumor	
11.04am	Samuel Broida - Autotransfusion During Intralesional Tumor Resection: Effectiveness of Leukocyte Reduction Filtration in Removing Neoplastic Cells	
11.07am	Yang Dong - The Application of Uncemented Stems in the Revision of Femoral Tumor-type Prosthesis	
11.10am	Kuan-Lin Chen - Biological Reconstruction of the Distal Tibia Following Wide Excision: Revisiting Mechanical Fixation Constructs	
11.13am	Nor Faissal Yasin - Aseptic loosening of distal femur endoprosthesis reconstruction	
11.16am	Hua Wang - Deep Learning based Classification Models in Identifying Bone Tuberculosis and Purulent Bone Infections based on Radiographs—a Multicenter and Retrospective Study	
11.19am	Thanate Poosiripinyo - Clinical Outcomes of Allograft and Autograft Recycling Prosthesis Compositewith Non-Hinged Constrained Polyethylene Liner Reconstruction following Bone Tumor Resection of the Knee	
11.22am	PraveenGupta - Pre-operative planning and post-operative viability of Recycled tumour bone for limb salvage in primary malignant bone tumours; PG Radiology assessment system (PGRA)	
11.25am	Discussion	
12.00pm	Session concludes	

Wednesday 9 October 2024	2:00pm - 3.38pm (Room M1)	Moderators : Val Lewis, Ather Siddiqi
2.00pm	Vivek Ajit Singh - Efficacy Of Low-Dose .vs High-Dose Intravenous Tranexamic Acid In Reducing Blood Loss In Major Musculoskeletal Oncology Surgery	
2.03pm	Zyad Aldosari - Oncological Outcomes of Extremity Soft Tissue and Bone Sarcomas with or without Vascular Intervention	
2.06pm	Daniela Kristina Carolino - Outcomes of the In Situ Preparation Technique for Sarcomas Adjacent to Major Neurovascular Structures	
2.09pm	Burkhard Lehner - Postoperative fractures after soft tissue sarcoma (STS) resection	
2.12pm	Cameron Tuckey - Predictors of seroma formation in extremity soft tissue sarcoma	
2.15pm	Panayiotis Gavriil - Unplanned Excision of Soft Tissue Sarcoma – the Impact of Residual Disease in Re-Excision Specimen	
2.18pm	Xiang Fang - Preoperative planning using three-dimensional multimodality imaging for soft tissue sarcoma of the axilla: a pilot study	
2.21pm	Jiayi Weng - Surgical Excision of Atypical Lipomatous Tumours: Wide, “Wide-ish” or Marginal? Oncological and Functional Outcomes of Three Types of Excision	
2.24pm	Amy Zeller - Physical Function Correlates Better than Mental Health for Provider- and Patient-Reported Outcomes in Patients with Soft Tissue Sarcoma	
2.27pm	Umesh Yadav - Reassurance, resection & reconstruction (RRR) - outcome of upper limb sarcoma defects with deep inferior epigastric artery-based flap	
2.30pm	Zile Singh Kundu - Long term assessment of fibular hypertrophy after tibialisation/centralization for tibial tumours: A clinico-radiologic study of 8-20 years follow up	
2.33pm	Zhuoyu Li - What Are the Mechanisms of Failure, Survival and Function of Total Femoral Replacement for Oncological Indications?	
2.36pm	Vijay Titus - Reconstruction of Patellar Tendon After Proximal Tibia Reconstruction for Malignant tumors	
2.39pm	Lee Zuckerman - All internal distraction osteogenesis after tumor resection with magnetic intramedullary nails	
2.42pm	Lorenzo Andreani - Proximal femur megaprotheses in orthopedic oncology: Evaluation of a standardized post-operative rehabilitation protocol	
2.45pm	Morgan Short - Ewing Sarcoma: A retrospective review of incidence and risk factors affecting New Zealand Māori	
2.48pm	Alexandra Callan - Surgical Outcomes in Localized Ewing Sarcoma Patients Treated on AEWS1031: A Report from the Children's Oncology Group	
2.51pm	Philipp Funovics - Neo-adjuvant proton beam therapy and replantation of extra-corporally irradiated autografts for reconstruction of peri-acetabular Ewing's sarcoma.	
2.54pm	Randy Susanto - Case Report: Ewing Sarcoma of The Sacrum, Did the surgical intervention improve the overall outcome?	
2.57pm	Marcio Moura - Total spondylectomy 'in block'- three vertebral bodies or more, long segment	
3.00pm	Guowen Wang - The application of endoscopic tubular musculoskeletal tumor surgery in the treatment of spinal tumors	
3.03pm	Discussion	
3.38pm	Session Ends	

Wednesday 9 October 2024	3.43pm - 5.25pm (Room M1)	Moderators : Gerhard Hobusch, Ellie Houghton
3.43pm	Rishi Agarwal - Long term outcomes of 'tibia into acetabulum' (B3a) Rotationplasty after total femur excision in children.	
3.46pm	Narendra Butola - Outcome of proximal femur reconstruction in pediatric patients with primary malignant bone tumors - An institutional experience of 11 cases in a tertiary care cancer centre from India	
3.49pm	Sarah Consalvo - KIDS Project: Deep Learning-based Bone Tumour Detection in Children – A Preliminary Study	
3.52pm	Hung-Kai Weng - Skeletally immature children with osteogenic sarcoma around knee treated with hemi-knee arthroplasty	
3.55pm	Abigail Tud - Filipinos with conventional extremity osteosarcoma: an analysis of treatment outcomes from a government sarcoma referral center	
3.58pm	Zhiping Deng - Oncological results and influence factors of the surgical treatment of parosteal osteosarcoma in distal femur	
4.01pm	Binghao Li - Neoadjuvant therapy with CSF-1R inhibitor surufatinib plus doxorubicin and cisplatin (AP) versus AP with or without high-dose methotrexate in patients with resectable high-grade osteosarcoma: a multicenter, non-randomized, controlled trial	
4.04pm	Jichuan Wang - Effects of receptor-biased cytokine IL-2 on the fate and differentiation status of tumor-infiltrating lymphocytes in osteosarcoma	
4.07pm	Ahmet Salduz - The investigation of the cytotoxic genotoxic and apoptotic effect of bee venom on osteosarcoma cell line	
4.10pm	Yunus Abdul Bari - The Correlation of Alkaline Phosphatase, Lactate Dehydrogenase, C-Reactive Protein, Erythrocyte Sedimentation Rate, and Apparent Diffusion Coefficient Values with Enneking Staging and Osteosarcoma Subtypes	
4.13pm	Tiao Lin - The role and mechanism of CD155 in regulating the Wnt signaling pathway in osteosarcoma via the SRC-mediated PI3K-AKT pathway	
4.16pm	Chandhanarat Chandhanayingyong - Transcriptomic Profiling of Extraskeletal Myxoid Chondrosarcoma: Unveiling EWSR1- and EWSR1+ Signatures for Clinical Insight and Precision Oncology	
4.19pm	Gerhard Maale - Eradication of Biofilm Using A-C generated Electro-magnetic Force and Antibiotic at MIC	
4.22pm	Sermak Sukpanichyingyong - Enhancing infection prevention in curettage and cementation procedure: The role of antibiotics-loaded bone cement	
4.25pm	Weifeng Liu - Mid-long term results of survival and function for primary malignant pelvic bone tumors	
4.28pm	Minxun Lu - Three-dimensional design custom-made uncemented stem for revision of cemented distal femoral endoprosthesis due to aseptic loosening	
4.31pm	Katrina Ysabel - Naraval Percutaneous Doxycycline Ablation for Recurrent Aneurysmal Bone Cyst in the Sacroiliac Joint: A Case Report	
4.34pm	HirotaKanyonezawa - Can a Liquid Nitrogen-treated Tumor-bearing Nerve Graft Regenerate the Nerves, Resulting in Tumor Recurrence? A Rat Study	
4.37pm	Munjed Al Muderis - Role of 3D Modelling in an Accurate Deformity Assessment and Correction	
4.40pm	Man Lung Moses Li - Determining the best option for bone tumor precision surgery: computer navigation, 3D printed patient specific guides or NAVIG?	
4.43pm	Jiuhui Xu - The mechanism of chordoma recruiting fibroblasts to secrete collagen I via MIF for the immune-excluded microenvironment	
4.46pm	Dimitra Melissaridou - Propranolol in the treatment of osteosarcoma: a biphasic activity in an in vivo experimental model	
4.49pm	Discussion	
5.25pm	Session concludes	

Lunchtime - Symposia

Tuesday 8 October 2024

1.45pm Novagenit Australia



Wednesday 9 October 2024

1.00pm Adler Orthopaedics



Thursday 10 October 2024

1.00pm Implantcast



Friday 11 October 2024

1.00pm Boehringer - Ingelheim



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