

Programme

Detailed programme
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18 September 2024

08.30-18.00	Registration open hours			
09.00-11.30	Workshop	Pitch Area (Ground floor)	Workshop	Session room (3rd Floor)
	Simulation-based training <i>Limited seats - separate registration required</i>		Serum and Tissue Biomarkers in Orthopedics <i>Limited seats - separate registration required</i>	
11.30-12.30	Lunch & Networking			
12.30-13.00	Opening & Welcome			Plenary East (Ground floor)
13.00-13.55	ON/EORS collaborative orthoregeneration symposium			Plenary East (Ground floor)
Revolutionizing Orthopedics: RNA Technologies in the Battle Against Musculoskeletal Disorders				
13.55-14.00	Short break for room change			
	Plenary East - Ground floor	Auditorium - Ground floor	Plenary West - Ground floor	Session room - 3 rd floor
14.00-14.55	Clinical	Biology/Biomaterials	Bridging Keynotes	Biomechanics
	Symposium: 24/7 data to support clinical decisions	Symposium: Antimicrobial resistance and biofilms: The future challenge in bone and joint infections	Symposium: Osteoarthritis is not Osteoarthritis	Symposium: Explorative osteoarthritic remedies: From physical to pharmacological stimulation
14.55-15.00	Short break for room change			
15.00-16.00	Biomechanics	Bridging Keynotes	Biology/Biomaterials	Clinical
	Symposium: Computer-Aided Orthopaedics	Symposium: TENET - Tendon Regeneration NETwork (Cost Action CA22170)	Symposium: Towards a comprehensive approach to tackle infections: New metalbased antibacterial strategies from implants to surfaces	Symposium: Chronic pain after total knee replacement
16.00-16.30	Coffee & Exhibition			
16.30-17.25	Bridging Keynotes	Biomechanics	Biology/Biomaterials	Clinical
	Free Papers: ARTIFICIAL INTELLIGENCE	Free Papers: IMPLANTS	Free Papers: CARTILAGE	Free Papers: TRAUMA
17.25-17.30	Short break for room change			
17.30-18.00	Plenary Lecture			Plenary East (Ground floor)
	Multiscale Biofabrication for Fibrocartilage Scaffolds: The Labrum as Representative Application			
	<i>Professor Stephen Ferguson</i>			
18.00-20.00	Welcome Reception & Poster Viewing			3rd Floor
20.30-23.00	New Investigator Social Event			Café Ulla Terkelsen

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19 September 2024

07.00-17.00	Registration open			
	Plenary East - Ground floor	Auditorium - Ground floor	Plenary West - Ground floor	Session room - 3 rd floor
08.00-08.55	Clinical Symposium: Mixed reality: The future of orthopaedic surgery and medical education?	Best new investigator oral presentations 08.00-09.30	Biomechanics Symposium: Musculoskeletal modeling applied to orthopaedic problems	Bridging Keynotes Symposium: New technologies for drug and gene delivery targeted to musculoskeletal tissues
08.55-09.00	Short break for room change			
09.00-10.00	Biology/Biomaterials Free Papers: INFECTION/SPINE	Best new investigator award 09.30-10.00	Clinical Free Papers: OA/TKA	Biomechanics Free Papers: TENDON 1
10.00-10.30	Coffee & Exhibition			
10.30-11.25	Best oral presentations	Clinical Symposium: Virtual Reality in Orthopaedics	Biology/Biomaterials Symposium: Advancing tissue engineering for tendon repair and regeneration	Bridging Keynotes Symposium: Robot Surgery in Hip and Knee
11.25-11.30	Short break for room change			
11.30-12.30	Bridging Keynotes Free Papers: TECHNOLOGY	ON/EORS Orthoregeneration Grant tank competition	Biomechanics Free Papers: MODELLING	Clinical Free Papers: SPINE/ MISCELLANEOUS
12.30-13.30	Lunch & Exhibition			
12.55 - 13.25	Industry Sponsored Symposium			
13.30-13.55	Plenary Lecture Plenary East (Ground floor) Towards personalized analysis and treatment using dynamic imaging and musculoskeletal modelling - Nico Vendonschot (NL)	Plenary Lecture Auditorium (Ground floor) AI in orthopedics: Current status, barriers and facilitators - Vipin Asopa (UK)		
13.55-14.00	Short break for room change			
14.00-14.55	Clinical Symposium: Wearables for assesing upper and lower extremity activity	Biology/Biomaterials Symposium: Bone Infections	Biomechanics Symposium: Osseointegration and bionics to provide better prostheses to amputees	Bridging Keynotes 14.00-15.30 Symposium: Absorbable Implants from Bench to Bedside: Journey, Regulations and Directions
14.55-15.00	Short break for room change			
15.00-16.00	Bridging Keynotes Free Papers: STEM CELLS	Clinical Free Papers: ARTHROPLASTY	Symposium: How to deal with Failure? - EORS New Investigator Symposium	NetOArk for networking 15.30-16.00
16.00-16.30	Coffee & Exhibition			
16.30-16.55	Plenary Lecture Auditorium (Ground floor) Magnetic Biomaterials Systems for Tendon Regeneration - <i>Manuela Gomes (PT)</i>	Plenary Lecture Plenary East (Ground floor) 3-D modelling of the musculoskeletal system - <i>John Rasmussen (DK)</i>		
16.55-17.00	Short break for room change			
17.00-18.00	Best New Investigator Poster	Bridging Keynotes Free Papers: BONE/TENDON	Biology/Biomaterials Free Papers: TENDON 2	Clinical Free Papers: UPPER LIMB/SPORT
19.00-01.00	Evening event at Aalborg Street Food		Admission by pre-booked ticket only	

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20 September 2024

07.00-15.30	Registration open			
	Plenary East - Ground floor	Auditorium - Ground floor	Plenary West - Ground floor	Session room - 3 rd floor
08.00-08.55	Bridging Keynotes Symposium: Strategies applied to the development of innovative biomedical implants	Clinical Symposium: Meniscal repair and regeneration: Current strategies and future perspectives	Biology/Biomaterials Free Papers: CARTILAGE 2	Biomechanics Free Papers: CARTILAGE 3
08.55-09.00	Short break for room change			
09.00-10.00	General Assembly (for EORS members, by invitation only)			Auditorium (Ground floor)
10.00-10.30	Coffee & Exhibition			
10.30-11.25	EORS Equal Opportunity symposium 2024	Biology/Biomaterials Symposium: Mechanobiological models in orthopedics and musculoskeletal regeneration – in vivo, in silico, in vitro	Clinical Symposium: Future patient pathway in total knee arthroplasty from pre-operative kinematic assessment towards smartphone application-driven musculoskeletal rehabilitation	Bridging Keynotes Symposium: Charcot osteoarthropathy, from bone to beams and barriers to treatment
11.25-11.30	Short break for room change			
11.30-12.30	Bridging Keynotes Plenary Lecture Visiting Nations - NOF & Acta Orthopaedica History of Nordic Orthopaedic Federation (NOF) - <i>Søren Kold (DK)</i> How to get your paper published and the perfect reviewer - <i>Søren Overgaard (DK)</i>	Plenary East (Ground floor)	Biomechanics Plenary Lecture Remote Gait Analysis in Orthopedics: Current Trends for Advancing the State-of-the-Art - <i>Reed Donovan Gurchiek (US)</i>	Auditorium (Ground floor)
12.30-13.30	Lunch & Exhibition			
13.30-14.00	Plenary Lecture PTH as a chondroprotective for osteoarthritis: A person to mouse to person journey - <i>Susan Bukata (ORS President, US)</i>			Plenary East (Ground floor)
14.00-15.00	Biomechanics Symposium: Advances of wearable technologies in healthcare	Biology/Biomaterials Symposium: Osteoarthritis: From patient to molecule - Symposium of the German Musculoskeletal Regeneration Network	Bridging Keynotes Symposium: Major Lower Extremity Amputations (LEA)	Clinical Symposium: Asian-Pacific Symposium
15.00-15.30	Coffee & Exhibition			
15.30-16.25	Biomechanics Free Papers: IMAGING	Biology/Biomaterials Free Papers: BONE	Bridging Keynotes Free Papers: CARTILAGE 4	Clinical Free Papers: PEDIATRICS/TRAUMA
16.25-16.30	Short break for room change			
16.30-17.00	Awards and Closing Ceremony			Plenary East (Ground floor)

Greeting messages

EORS PRESIDENT
Holger Jahr

Dear EORS members, delegates, and friends,
On behalf of the Executive Committee of the European Orthopaedic Research Society, it is my great pleasure to cordially welcome you all to our 32nd Annual Meeting in the beautiful city of Aalborg, Denmark. Aalborg is one of Scandinavia's most vibrant cultural hotspots, with a history dating back more than 1,000 years, 16th-century castles, excellent art exhibitions, an iconic outdoor swimming pool, and a revitalized waterfront which together guarantees varied social activities.

This year, we will meet at AAU INNOVATE – the Science and Innovation Hub of the Aalborg University (AAU). Founded in 2022, this brand-new building provides a unique and vibrant setting to promote latest musculoskeletal research and trendy developments in Orthopaedic surgery on 8,500 m². Biological, biomechanical, and clinical research will be addressed from nano- to tissue-scale and beyond; with wearable sensors, biomaterial development and AI as focus areas. Designed to promote idea generation and innovation, AAU INNOVATE seemed ideal for this purpose.

In the spirit of EORS' mission, Aalborg will facilitate the exchange of research and development in Orthopaedic surgery and related sciences throughout Europe, with participants from Portugal to Turkey and from Greece to Norway. Participation of the Federation of Nordic Orthopaedic societies (NOF)

enabled this exceptional geographical coverage. EORS most gratefully acknowledges the efforts of the local organizing committee, led by conference chairs NOF-President Søren Kold and Ole Rahbek.

We further welcome delegates from around the world, with a plenary lecture by ORS President Susan Bukata, contributions by ICORS President Bernd Grimm, a keynote from OARSI Past-President Gun-il Im in a symposium organized by KORS President Sang-Soo Lee, as well as latest research on OA presented by Ali Mobasher, and Feng-Sheng Wang from Taiwan - to name just a few.

This year's conference program thus promises an exciting array of presentations and we are looking forward to an engaging three days, packed with contributions to a wide range of musculoskeletal themes and topics through interdisciplinary cooperations.

I would like to express our gratitude to all our sponsors for their support. Our strategic alliance with the ON Foundation is invaluable, resulting in our cutting edge yearly ON/EORS collaborative symposia and prestigious awards. I look forward to see our EORS 2023 awardees and the 2024 ON Foundation Education Award winners in Aalborg.

I hope to meet you all at EORS 2024 for these inspiring days.

Warm regards

Holger Jahr
EORS President (2022-24)

Greeting messages

EORS 2024 LOCAL CHAIRS

Søren Kold & Ole Rahbek

Dear Colleagues and Friends,

It is our great honor and pleasure to welcome participants from 32 countries from all over the world to the 32nd Annual Meeting of the European Orthopaedic Research Society (EORS 2024). In a time when our healthcare systems demand innovative solutions more than ever, this conference aims to accelerate the advancements that will shape the future of orthopedics by fostering collaboration between clinicians, medical scientists, and industry.

We are excited to host this year's event in the vibrant city of Aalborg. Known for its dynamic blend of history and innovation, Aalborg offers a unique setting for our conference. Did you know that Aalborg was once a bustling Viking port? Today, it's a lively cultural hub and has been dubbed "Denmark's happiest city." While you're here, we encourage you to explore the stunning Aalborg waterfront, take a stroll through the charming medieval streets, or visit the Aalborg Tower for a panoramic view of the city.

Our venue, Aalborg University, is a beacon of academic excellence and innovation. Established in 1974, the university is known for its pioneering approach to problem-based learning and has been a driving force behind breakthroughs in various fields, including renewable energy and robotics. Aalborg University was ranked the best engineering university in Europe in 2020, a testament to its cutting-edge research and commitment to solving real-world challenges.

We are confident that EORS 2024 will be an inspiring and productive event, filled with thought-provoking discussions, innovative research presentations, and valuable networking opportunities. We look forward to welcoming you to Aalborg and working together to shape the future of orthopedics.

Warm regards

Ole Rahbek and Søren Kold
Conference Chairs

Greeting messages

ICORS PRESIDENT (2022-2025)

Bernd Grimm

Dear Colleagues and Friends,

I am delighted to have the opportunity to extend a warm welcome message to you on behalf of ICORS, the International Combined Orthopaedic Research Societies and global alliance of the now 13 Orthopaedic Research Societies plus affiliate members from around the world of which EORS has been a founding and active member.

I like to highly commend EORS, the 2024 Congress Chairs Ole Rahbek and Søren Kold and their organizing committee for composing such an attractive meeting with an international faculty and delegations from all over Europe and, in true ICORS spirit, from all around the world. It is great that the meeting includes participation of distinguished ICORS representatives of which I like to name a few like ORS president Susan Bukata, Sang-Soo Lee, past-president of the Korean ORS, Feng-Sheng Wang, board member of the Taiwanese ORS and Suresh Sivananthan, founding board member of the Asia-Pacific ORS and treasurer of SICOT. With Gun-Il Im from Korea and Hamish Simpson, UK also the past- and incoming ICORS presidents honour EORS 2024 with their participation. As do Geoff Richards, first recipient of the prestigious ICORS Transformative Contribution

Award and Brian Johnstone as the Chair of the ICORS established College of "Fellows of International Orthopaedic Research" (FIOR) whose esteemed members I explicitly like to welcome. It also is very special in the spirit of global collaboration, that the delegation from Japan is larger than that of several European countries!

This year's "spotlight country" is the Nordic Orthopaedic Federation (NOF), thus not a country but an alliance of 8 countries showcasing, like ICORS that collaboration across borders, geographical as well as disciplines and other aspects of diversity, generates much benefit to our communities.

One more important announcement: ICORS 2025, our 12th triennial meeting and World Congress of Orthopaedic Research will take place 8-11 October 2025, in Adelaide, hosted by the Australia & New Zealand ORS (#icors2025). Save-the-Date, bookmark and subscribe at icors2025.com.au! Plan your abstract submission and travel plans for a maybe once-in-lifetime experience down-under!

I wish you a successful and enjoyable EORS 2024 with new contact, collaborators and maybe friends from around the world.

Warm regards

Bernd Grimm, FIOR
ICORS President (2022-2025)
Luxembourg Institute of Health

Greeting messages

GREETINGS FROM VISITING NATIONS,
THE NORDIC ORTHOPAEDIC FEDERATION, AT THE EORS CONGRESS 2024

President Søren Kold

**Dear friends and colleagues
at the EORS Congress 2024.**

It is a great honor for the Nordic Orthopaedic Federation (NOF) to participate at this highly interdisciplinary congress. Dating back to 1919 the cornerstone of the Nordic Orthopaedic Federation is an exchange of scientific, educational and clinical knowledge between member countries. Today, NOF represents more than 5,500 members from Norway, Sweden, Denmark, Finland, Iceland, Holland, Estonia and Lithuania. Countries that like the EORS try to pursue the highest scientific standards in research. We must introduce new treatments and optimize current treatments for our patients based on solid evidence. Modern techniques will continue to emerge revolutionizing treatments to the benefit of patients with musculoskeletal diseases. The full potential of these new techniques can only be fulfilled when dedicated interdisciplinary research is performed pulling on the domain knowledge of both basic scientists, engineers and clinicians. At the same time, we must not forget that some of the truly revolutionizing treatments emerge from basic science.

Since 1930 the Acta Orthopaedica has welcomed scientific papers from all disciplines within orthopaedics. Building on a strong tradition of translational research, preclinical research within the areas of biology and biomechanics is published together with clinical research from all subspecialties within orthopaedics. At the EORS Congress 2024, we are very glad to have a special session with the Editor in Chief of Acta Orthopaedica, Professor Søren Overgaard, who will enter into a dialogue about how to get your paper published and how to become the perfect reviewer.

All in all, we are looking very much forward to fruitful days among friends and colleagues sharing our common goal of delivering the optimal treatment for each individual with musculoskeletal disease.

Yours sincerely,

Søren Kold

President (2024-2026) of the Nordic Orthopaedic Federation