



## **ESM Newsletter 1/2024**

Dear members of the European Society for Microcirculation, dear Colleagues,

Please find attached the newsletter 1-2024 to highlight ongoing and future activities of the ESM and its national societies.

If you would like to contribute to our newsletter, do not hesitate to contact us via the email contact available on our website [www.esmicro.eu](http://www.esmicro.eu). We look forward to hear from you.

Best regards from the whole ESM team,



Elena Osto



Anja Meissner



Henning Morawietz

## MEETINGS

Save the date!



# EUROPEAN SOCIETY FOR MICROCIRCULATION BIENNIAL MEETING MAY 19-22, 2025, SZEGED, HUNGARY **ESM 2025**

EUROPEAN SOCIETY FOR MICROCIRCULATION  
Integrating  
Vascular Biology & Medicine



In co-operation with the Microcirculatory Society

**You are cordially invited to the upcoming  
Biennial Meeting of the European Society for Microcirculation!**

**Time:** May 19-22, 2025, **Venue:** The Attila József Education and Information  
Centre of the University of Szeged, Szeged, Hungary



**Host Society:** The Hungarian Society for Microcirculation  
and Vascular Biology (MMVBT)

**Opening lecture:**

**Dr. David Attwell, University College London**

The program draft includes 6 keynote lectures  
16 symposia, poster sessions

**We very much look forward to your participation in ESM 2025  
and to welcoming you to Szeged, Hungary!**







**74<sup>th</sup> Annual Meeting of the British  
Microcirculation and Vascular Biology Society**  
Monday 15<sup>th</sup> to Tuesday 16<sup>th</sup> July 2024



**Endothelial Glycocalyx symposium | Wed 17<sup>th</sup> July 2024**

**Keynote speakers**

**David Beech** | University of Leeds

*PIEZO1 force sensor in cardiovascular health and physical exercise*

**Matthew Butler** | University of Bristol

*Can we use a liquid biopsy to study endothelial function?*

**Alastair Poole** | University of Bristol

*Platelets generation in the pulmonary vasculature: mechanisms and implications*

**Anna Randi** | Imperial College London

*Not all endothelial cells are the same: transcriptional mechanisms of endothelial organotypicity*

**Julie Rayes** | University of Birmingham

*Platelets beyond thrombosis: novel drivers of vascular inflammation*

**Didier Stainier** | Max Planck Institutes, Germany

*Genetic robustness during vascular development*

**Ellie Tzima** | University of Oxford

*Mechanotransduction in endothelial cells*

**Anna Zampetaki** | King's College London

*Human Blood Vessel Organoids as a model of Microangiopathy*

Registration



Abstract  
submission



**FUJIFILM**  
**VISUALSONICS**



**2-5 July 2024, Amsterdam, the Netherlands**

**REGISTRATION NOW OPEN!**



[www.ivbm2024.com](http://www.ivbm2024.com)

**KEYNOTES:** Kari Alitalo, Kristy Red-Horse, Hans Clevers  
Stefanie Dimmeler, Nikolaus Rajewsky, Anne Eichmann  
Didier Stainier, Stefania Nicoli, Magdalena Zernicka-Goetz



# EUROPEAN SOCIETY FOR MICROCIRCULATION

Aarhus (Denmark) // 23-27 April  
2023



## ESM Conference in Aarhus, Denmark, 24-27 April, 2023

Following the very successful ESM Conference in Maastricht in 2019, ESM had a 1-day online conference in May 2021, in a time where corona had its zenith. The online meeting was a great success with 300 delegates registered from about 17 European countries in addition to presentations from the USA and Canada. There were extremely interesting plenary lectures by Markus Sperandio, Munich University on neutrophil recruitment and by Joanna Kalucka, Aarhus University on endothelial cell heterogeneity coupled with parallel sessions on the hottest topics in microcirculation research.

In May 2023, ESM hosted a 4-day conference in Aarhus, Denmark, with physical attendance. The conference venue was the Aarhus Music Hall in the city center, which had ideal facilities for a conference of this size. There were 260 participants from 24 countries, 6 plenary lectures, 16 parallel sessions with 66 session lectures, and 115 posters. One of the parallel sessions was dedicated to our early career scientists with some excellent presentations.

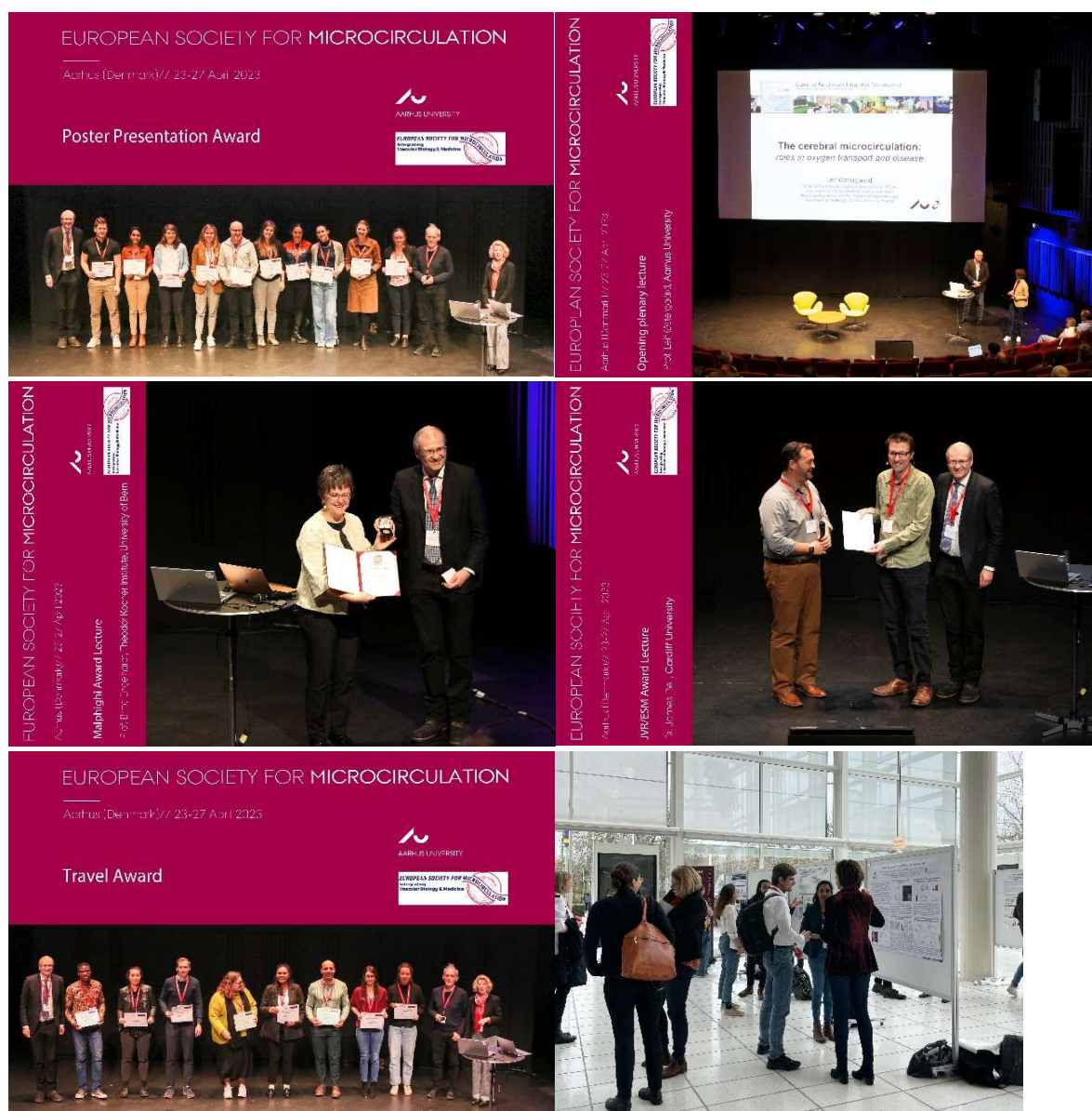
Among the highlights of the conference were the plenary lectures, which covered topics such as oxygen delivery in the cerebral circulation, the vascular-macrophage crosstalk, exercise, interaction between the macro- and micro-circulation, metabolic cell-cell communication, and development of microvascular networks. The plenary lectures were highly informative and included many of the areas where significant advances are being made in our understanding of the microvasculature. The parallel sessions covered a wide range of topics within the microvascular area, and it was clear from the many excellent presentations that the microvascular field is currently developing at an impressive speed.

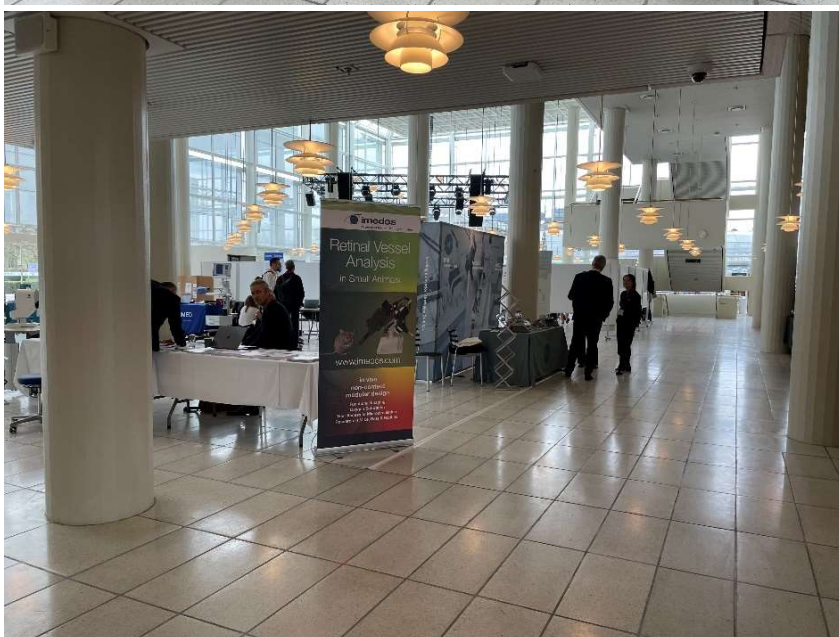
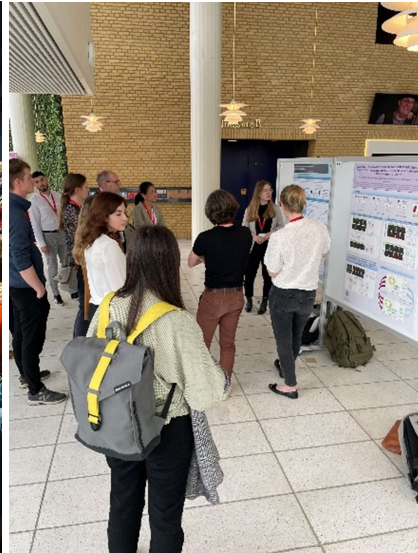
Another highlight of the conference was the ESM Award session. ESM bestows two major awards at our biennial meetings – the Malpighi Award and the Journal of Vascular Research/ESM Award, with both awardees presenting at the meeting. The Malpighi Medal was awarded to Britta Engelhardt, University of Bern who delivered an inspirational presentation on the microvasculature, the blood brain barrier and neuroinflammation. It was clear that the award was well placed and celebrated an impressive amount of high-quality work. The Journal of Vascular Research/ESM Award was given to James Bell, Cardiff University for his paper published in the Journal of Vascular Research entitled “Microstructural Characterization of Resistance Artery Remodeling in Diabetes Mellitus”. This presentation was equally impressive and discussed the mechanical and structural consequences of increasing transmural pressure for small arteries from patients with diabetes. The data substantially increases our understanding of how small arteries are changed in diabetes. In addition, ESM also awarded prizes for best oral and poster presentations from our junior researchers and provided travel awards to eight of our early career investigators submitting high quality abstracts for the meeting. In addition, we continue our fruitful partnership with colleagues from the MCS, whereby both societies contribute to two travel awards/annum, allowing early career investigators to present their research at ESM or MCS meetings. Abstracts, posters, and oral presentations were very impressive, demonstrating a thriving microcirculation research endeavour and provided excellent promise of a bright future for European microvascular research.

A final highlight which should be mentioned, is the Ph.D. course “What you need to know about life in the arterial wall”, which bracketed the main meeting. Around 50 Ph.D. students from 10 different countries attended a course during the morning of the first day of the meeting and again in the afternoon following conclusion of the main meeting. The course prepared the



Christian Aalkjaer  
President, European Society for Microcirculation Conference, Aarhus, Denmark, 2023









# World Congress of Microcirculation

Beijing, China  
20-24, Sep  
2023

The 12<sup>th</sup> World Congress of Microcirculation was held from September 20 to 24, 2023, at Beijing Guoce International Convention and Exhibition Center. Professor Jing-Yan Han, Vice President of the Chinese Society of Microcirculation and Director of the Department of Integration of Chinese and Western Medicine of Peking University Health Science Center, was the President of the Congress. Academician Qimin Zhan, Vice President and Secretary-General of the Chinese Society of Microcirculation, and Professor Naifeng Liu, President of the Chinese Society of Microcirculation and Professor of Cardiology of Southeast University School of Medicine, were Co-Chairs of the Congress.

A total of 750 experts and scholars from the United States, Canada, the United Kingdom, France, Germany, Italy, Switzerland, the Netherlands, Hungary, Russia, Croatia, Australia, Japan, Thailand, Indonesia, Nigeria, China, and the Hong Kong Special Administrative Region of China participated onsite or online.

Keynote lectures were delivered by Professor Stefanie Dimmeler from the University of Frankfurt, Germany, Professor Britta Engelhardt from the University of Bern, Switzerland, Professor Kesheng Dai from Suzhou University School of Medicine, China, Professor Sarah Yua from the University of South Florida School of Medicine, USA, and Professor Michael Hickey from Monash University, Australia.

Academician Qimin Zhan from Peking University Health Science Center won the Taishan Award, Professor Luis A. Martinez-Lemus from the University of Missouri received the Zweifach Award, and Director Makoto Suematsu from the Central Institute for Experimental Animals in Japan received the Nishimaru-Tsuchiya Award, and delivered award lectures.

Plenary Lectures were presented by Professor Donald Welsh from University of Western Ontario, Canada, Professor Xunbin Wei from the Peking University School of Medical Technology, Dr. Paul Fraser from the King's College London, UK, Professor Amanda Jo LeBlanc from the University of Louisville, USA, Professor Gilles Pages from the University Côte d'Azur, France, Professor Giovanni E Mann from the King's College London, UK, Professor Geert Schmid-Schönbein from the University of California San Diego, USA, Professor Yoshikazu Tsuzuki from Saitama Medical University Hospital, Japan, and Associate Professor Congying Wu from Peking University School of Basic Medical Sciences.

Lunch lectures were given by Professor Jiangang Shen from the University of Hong Kong School of Chinese Medicine, Assistant Professor Jian Liu and Postdoctoral Fellow Yingqian Jiao from Peking University School of Basic Medical Sciences.

A total of 164 scholars gave talks in 41 symposiums (including 13 organized by the American Society for Microcirculation, 1 by the American Physiological Society Cardiovascular Branch, 8 by the European Society for Microcirculation, 3 by the Japanese Society for Microcirculation, 3 by the Australia/New Zealand Society for Microcirculation, 1 China-Japan joint symposium, and 12 by the Chinese Society of Microcirculation); 28 young scholars gave talks in 7 young symposiums; 44 scholars gave talks in 11 satellite symposiums; 72 scholars gave talks in 11 free oral communications. There were 182 posters presentations.

15 young scholars received Young Investigator Awards, and 15 scholars received Best Poster Awards.

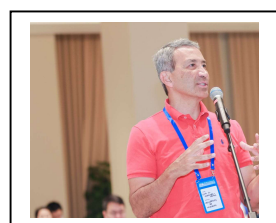
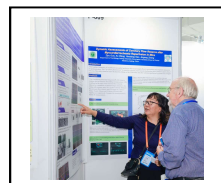
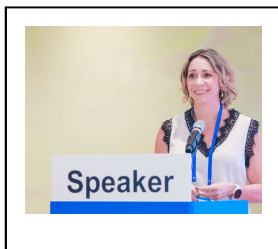
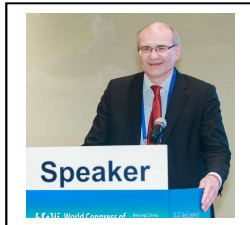
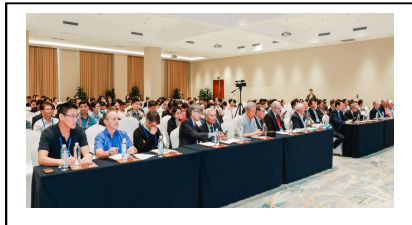
The Congress provided a platform for communication in the field of microcirculation and promoted the development of the microcirculation field.

We appreciate your active participation in this congress, online or in-person, where knowledge and friendships were fostered through vibrant discussions and exchanges.

Thank you again for your support.

Jing-Yan Han

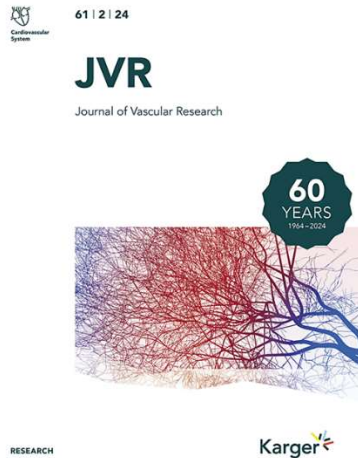
President, 12<sup>th</sup> World Congress of Microcirculation, Beijing, China, 2023





**The official journal of the European Society for Microcirculation:**

**Journal of Vascular Research**



**Editor:** Brant E. Isakson (Charlottesville, VA)

*Journal of Vascular Research* is now a **Transformative Journal**, committed to increasing the number of Open Access articles and converting to the Open Access model at the latest when 75% of papers are published Open Access. The Transformative Journal model supports authors by fulfilling all Open Access mandates and drives forward the Open Access transition while maintaining publishing choices for authors. Please visit the journal's guidelines for more information.

The Journal of Vascular Research (JVR) continues our close relationship with the ESM by co-sponsoring the "JVR Outstanding Manuscript Award Lecture" to Dr. James Bell from Exeter University, UK for the manuscript "Microstructural characterization of resistance artery remodeling in diabetes mellitus" *J Vasc Res*, 59(1); 50-60, 2022. This manuscript is an excellent example of JVR's ongoing commitment to publish top quality work.

JVR has continued our strong commitment over the last three years to publish high quality, rigorously performed work. Our commitment to transparency and reproducibility has garnered outstanding publication that is reflected by year-over-year increases in impact factor. Our time to decision continues to decrease as well, ensuring your work does not linger with never ending revisions. We are excited about JVR's progress and hope you can tell a difference. As always, please feel free to contact Brant Isakson ([brant@virginia.edu](mailto:brant@virginia.edu)) about any suggestions for continuing our progress with JVR.