







Program for 18th of July, 2024

29th Kraków Conference on Endothelium 25th -27th September 2024

25th September 2024

13:30 – 13:45 Welcome addresses and opening remarks:

Maciej Malecki, Vice-Rector Rector of the Jagiellonian University

Stefan Chłopicki (Jagiellonian Centre for Experimental Therapeutics-JCET, Jagiellonian University, Krakow, Poland), **Gabor Csanyi** (Vascular Biology Center-VBC, Augusta, USA), **Tilman Hackeng** (Cardiovascular Research Institute Maastricht (CARIM), Maastricht, the Netherlands) and **Vicente Andrés** (Spanish National Centre for Cardiovascular Research Carlos III-CNIC, Madrid, Spain)

Keynote lecture: (30 min. + 10 min. questions)

13:45 – 14:25 Jose J. Fuster, Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC) – Madrid, Spain

Clonal hematopoiesis and atherosclerotic disease: from humans to mice and back

Session I

Title: Vascular Ageing (part 1)

14:25 – 14:50 Vicente Andrés, Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC) – Madrid, Spain

Endothelial cell and vascular smooth muscle cell dysfuntion in Hutchinson-Gilford progeria syndrome

14:50 – 15:05 Iñigo Ruiz-Polo de Lara, Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), Madrid, Spain (short talk)

Role of endothelial cell A-type lamin expression in age-related cardiovascular disease

- 15:05 15:30 Catherine Shanahan, King's College London, London, UK
 - Senescence and the extracellular matrix in vascular ageing

15:30 – 15:55 Pauls Shiels, University of Glasgow, Glasgow, Scotland

The exposome and vascular ageing









15:55 - 16:25 Coffee break

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Title: Vascular Ageing (part 2)

- 16:25 16:50 Yu Wang, The University of Hong Kong, Hong Kong, China
 Cardiovascular protective function of SIRT1 an update
 16:50 17:05 Magda R. Hamczyk, Universidad de Oviedo, Oviedo, Spain (short talk)
 Endothelial-to-mesenchymal transition in progeria-associated atherosclerosis
 17:05 17:20 Anna Bar, JCET, Krakow, Poland (short talk)
 Accelerated ageing in endothelial-specific NRF2 knockout mice is linked to increased endothelial permeability, detected by MRI in vivo
 17:20 17:35 Grzegorz Kwiatkowski, JCET, Krakow, Poland (short talk)
 Sex-specific phenotype of heart failure in ageing APOE*3Leiden. CETP dyslipidemic mice

18:30 – 20:00 Welcome Reception (Collegium Maius Courtyard)







26th September 2024

Keynote lecture:

08:30 – 09:10 Csaba Szabo, University of Fribourg, Switzerland

Hydrogen cyanide, the next mammalian gaseous

Session III

Title: Vascular Inflammation (part 1)

- 09:10 09:35 Gabor Csanyi, Vascular Biology Center (VBC), Augusta, USA

 Mechanisms of foamy monocyte formation in atherosclerosis
- 09:35 10:00 David Stepp, Vascular Biology Center (VBC), Augusta, USA

 Impact of skeletal muscle metabolism on vascular function in obesity
- 10:00 10:25 Xiaochun Long, Vascular Biology Center (VBC), Augusta, USA

 New Mechanisms for vascular smooth muscle degeneration in vascular disease
- 10:25 10:50 **Jiliang Zhou, Medical College of Georgia, Augusta, USA**Regulation of smooth muscle phenotype by long non-coding RNAs

10:50 - 11:20 Coffee break

Session IV

Title: Vascular Inflammation (part 2)

inflammation

- 11:20 11:45 Eric Belin de Chantemele, Vascular Biology Center (VBC), Augusta, USA

 CD4+ T cells expressing HIV proteins induced endothelial dysfunction and hypertension via IL-1a-mediated, Nox1-derived ROS production
- 11:45 12:10 Philippe Vangrieken, Cardiovascular Research Institute Maastricht (CARIM),

 Maastricht, The Netherlands

 Methylglyoxal as a driver of vasculopathy in diabetes and prediabetes
- 12:10 12:35 Jaime Millán, Centro de Biología Molecular Severo Ochoa, Spanish National Research Council (CSIC), Madrid, Spain

 Harnessing Rho GTPases to preserve human endothelial barrier function during



17:10 - 17:40 Coffee break







12:35 – 12:50	Marta Smeda, JCET, Krakow, Poland (short talk) Impact of platelet-derived TGFβ1 on integrity of murine lung microvascular endothelial
	barrier: age-related disruption and effect of platelet releasate milieu
12:50 – 13:05	short talk selected from abstracts
13.05 – 13:35	Invitation to Poster Session 1 (rapid fire presentations 30 posters)
13.35 – 15.35	Lunch and Poster Viewing – Poster Session #1
Session V	
Title: Platelets	s and Thrombosis
15:35 – 16:00	Judith Cosemans, Cardiovascular Research Institute Maastricht (CARIM), Maastricht, The Netherlands
	Platelet-endothelial interaction in health and disease
16:00 – 16:25	Paola van der Meijden, Cardiovascular Research Institute Maastricht (CARIM), Maastricht, The Netherlands
	Monitoring antiplatelet therapy and associated bleeding risk in high-risk patients
16:25 – 16:40	Patrycja Kaczara, JCET, Krakow, Poland (short talk)
	Pharmacological inhibition of platelet energy metabolism as a way to potentiate antiplatelet drug action
16:40 – 16:55	Kamil Przyborowski, JCET, Krakow, Poland (short talk)
	PDIA1 and PDIA3 differentially regulate platelet function
16:55 – 17:10	short talk selected from abstracts









Session VI

Title: Tissue Factor Pathway Inhibitor (TFPI) and Vascular Wall

17:40 – 18:05 Tilman M. Hackeng, Cardiovascular Research Institute Maastricht (CARIM), Maastricht, The Netherlands

Tissue factor pathway inhibitor (TFPI) and the attenuation of venous thrombosis

18:05 – 18:30 Rory Koenen, Cardiovascular Research Institute Maastricht (CARIM), Maastricht,
The Netherlands

Regulation of TFPI by neutrophil extracellular traps (NETs)

18:30 – 18:45 Vanessa Bröker, Cardiovascular Research Institute Maastricht (CARIM), Maastricht, The Netherlands (short talk)

The effects of tissue factor pathway inhibitor on the proliferation and phenotype of vascular cells

18:45-19:10 Leon Schurgers, Cardiovascular Research Institute Maastricht (CARIM),
Maastricht, The Netherlands

Using the young to study the old: iPS cells to study vascular ageing and cardiovascular disease

19:30 Get Together-Party, Venue: Pałac pod Baranami, Market Square 27 (3 min. walk from the conference place)









27th September 2024

Keynote lecture:

08:30 – 09:10 **Joseph M. Miano, Vascular Biology Center (VBC) – Augusta, USA**A new genetic model of accelerated coronary atherosclerosis

Session VII

Title: Inflammation Resolution

09:10 – 09:35 **Jesmond Dalli, Queen Mary University of London, London, UK**Unveiling common pathways: Tackling joint and vascular inflammation to resolve multimorbidities

09:35 – 10:00 Mauro Perretti, The William Harvey Research Institute, Queen Mary University of London, London, UK

Resolution pharmacology to control comorbidities in arthritis

10:00 – 10:25 Ana Briones Alonso, Universidad Autónoma de Madrid, Madrid, Spain

Role of Resolvin D2 in vascular dysfunction and remodeling in hypertension

10:25 – 10:40 Agnieszka Kij, JCET, Krakow, Poland (short talk)

Systemic and local lipid mediator status reflecting vascular health

10:40 - 11:10 Coffee break

Session VIII

Title: Cardio- and vasco-oncology

11:10 – 11:35 Laura Cádiz Barrera, Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), Madrid, Spain

Anthracycline cardiotoxicity: Pathophysiological mechanisms and novel therapeutic targets

11:35 – 12:00 Pieter-Jan Guns, University of Antwerp, Antwerp, Belgium

SERPINA3, a novel marker of endothelial cell dysfunction in chemotherapy-related cardiovascular dysfunction?

12:00 – 12:25 **Jeanette Woolard, University of Nottingham, Nottingham, UK**Role of Endothelial Receptors in the Hypertension Induced by VEGFR-2 Inhibitors









12:25 – 12:50	Zoltán V. Varga, Semmelweis University, Budapest, Hungary
	Immune checkpoint signaling and heart failure

12:50 – 13:15 Marijke J E Kuijpers, Cardiovascular Research Institute Maastricht (CARIM), Maastricht, The Netherlands

Tyrosine kinase inhibitors for treatment of solid tumors: effects on platelet function and signalling

13:15 – 13:30 Elzbieta Buczek, JCET, Krakow, Poland (short talk)

BRAF and MEK inhibitors: investigating the mechanisms of vascular toxicity

13:30 - 13:45 short talk selected from abstracts

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13.45 – 14.15 Invitation to Poster Session 2 (rapid fire presentations 30 posters)

14.15 – 16:15 Lunch and Poster Viewing – Poster Session #2

Session IX

Title: Heterogeneity of Vascular Beds

16:15 – 16:40 Aernout Luttun, Centre for Molecular and Vascular Biology, Catholic University of Leuven, Leuven, Belgium

Transcriptional regulation of endothelial heterogeneity in health and disease

16.40 – 17:05 David Fulton, Vascular Biology Center (VBC), Augusta, USA

The role of PBK in pulmonary vascular remodeling

- 17:05 17:20 Ignacio Benedicto Español, Centro de Investigaciones Biológicas Margarita Salas (CIB Margarita Salas), Spanish National Research Council (CSIC), Madrid, Spain Role of endothelial cells in age-related defective liver regeneration
- 17:20 17:35 Izabela Czyzynska-Cichon, JCET, Krakow, Poland

 Liver sinusoidal endothelial cells (LSECs) and hepatocyte metabolism in chronic heart failure
- 17:35 17:50 Katarzyna Mleczko Sanecka, International Institute of Molecular and Cell Biology in Warsaw, Poland

Liver sinusoidal endothelial cells constitute a major route for hemoglobin clearance









17.30 - 10.03	SHOLL Talk selected Holli abstracts

Closing lecture: (30 min. + 10 min.)

18:05 – 18:45 Rhian M Touyz, Institute of the McGill University Health Centre (RI-MUHC) – Montreal, Canada

Aging and the vasculature in health and disease

18.45 – 19.00 Conference closing and poster awards ceremony

19:30 – 21:00 Wawel Castle Visit (special tour after Wawel is closed)