

12th December 2022

09:00 – 09:15 Prof. Marek Sanak - Vice-Rector's Proxy for Research and International Cooperation (Jagiellonian University Medical College, Poland) Welcome address

Prof. Stefan Chtopicki (Jagiellonian University in Kraków, Poland)
Prof. Bruno Podesser (Medical University of Vienna, Austria)
Opening remarks

KEYNOTE LECTURE

09:15 – 10:00 Prof. Stefano Taddei (University of Pisa, Italy) Characterization of the role of endothelial dysfunction in vascular aging in humans

SESSION 1 Title: Vascular Inflammation and Vascular Ageing
Chairs: Prof. Christian Aalkjær, Prof. Stefan Chtopicki

10:00 – 10:25 Prof. Zoltán Ungvári (University of Oklahoma, USA) Cerebrovascular senescence: role in age-related cognitive decline

10:25 – 10:50 Prof. Anton J. M. Roks (Erasmus University, the Netherlands) DNA damage as a cause of endothelial aging

10:50 – 11:15 Prof. Yu Wang (University of Hong Kong, PR China) Endothelial SIRT1 restores the circadian rhythmicity in PER2 mutant mice

11:15 – 11:30 Prof. Stefano Masi (University of Pisa, Italy) The role of SIRT1 in the cardiometabolic microvascular dysfunction

11:30 – 11:45 Prof. Michał Markuszewski (Medical University of Gdańsk, Poland) Metabolomics in clinical studies on examples of cardiovascular diseases

11:45 – 12:00 Dr Anna Bar (Jagiellonian University, Poland) Accelerated age-related development of endothelial dysfunction in mice with humanised dyslipidaemia

12:00 – 12:15 Dr Rafał Gulej (University of Oklahoma, USA) Age-mediated changes in circulating factors alter the physiology and gene expression of blood vessels

12:15 – 13:15 Lunch

POSTER SESSION 1

13:15 – 14:00 Chairs: Dr Izabela Czyżyńska – Cichoń, Dr Peter Pokreisz
Invitation to Poster Session 1, rapid fire presentations

14:00 – 15:30 Poster viewing – Poster Session 1 (Venue: Pałac Potockich, Rynek Główny 20, Kraków, 1st floor)

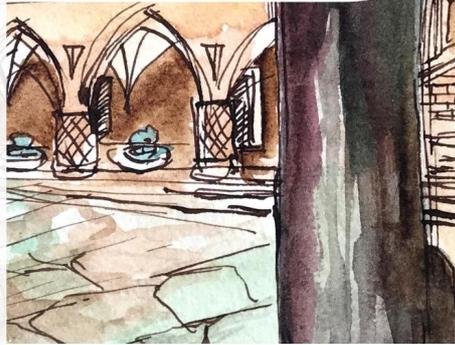
SESSION 2 Title: Inflammation Resolution
Chairs: Prof. Tomasz Brzozowski, Prof. Michał Markuszewski



CONFERENCE CHAIRS
Prof. Stefan Chtopicki (Poland)
Prof. Bruno Podesser (Austria)

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ORGANIZERS



28th & 10th

Kraków Conference on Endothelium

Cardiovascular Research Days



International Cultural Center,
Rynek Główny 25, Kraków

12th -14th December 2022

15:30 – 15:55 Prof. Jesmond Dalli (Queen Mary University of London, United Kingdom) N-3 Docosapentaenoic acid resolvins in vascular protection

15:55 – 16:20 Prof. Mauro Perretti (Queen Mary University of London, United Kingdom) Resolution-based therapy to control experimental cardiovascular diseases

16:20 – 16:45 Prof. Magnus Bäck (Karolinska University, Sweden) Lipid mediators of the resolution of inflammation for vascular homeostasis

16:45 – 17:15 Coffee break

SESSION 3 Title: Inflammation in (non) Ischemic and Inherited Cardiomyopathies
Chairs: Prof. Zoltán Papp, Prof. Michał Mączewski

17:15 – 17:40 Prof. Zoltán Varga (Semmelweis University, Hungary) Inflammation activation in end-stage heart failure

17:40 – 18:05 Prof. Francesco Paneni (University of Zurich, Switzerland) Epigenetic control of inflammation in heart failure with preserved ejection fraction

18:05 – 18:30 Prof. Attila Kiss (Medical University of Vienna, Austria) Pathophysiological role of Tenascin C in Duchenne Muscular Dystrophy

18:30 – 18:45 Dr Tamás G. Gergely (Semmelweis University, Hungary) Molecular characterization of immune checkpoint inhibitor-induced cardiotoxicity reveals IL-17A as a driver of cardiac dysfunction after anti-PD-1 treatment

18:45 – 19:00 Kamila Wojnar – Lasoń (Jagiellonian University, Poland) Right-ventricle dysfunction leads to early defenestration and cytoskeleton remodelling of liver sinusoidal endothelial cells (LSECs)

19:15 – 22:00 Get-Together Party (Venue: Pałac pod Baranami, Rynek Główny 27, Kraków)

13th December 2022

KEYNOTE LECTURE

08:30 – 09:15 Prof. Dirk J. Duncker (University Medical Centre Rotterdam, the Netherlands) Coronary microvascular endothelial dysfunction in ischemic heart disease

SESSION 4 Title: Vascular and Cardiac Inflammation
Chairs: Prof. Tomasz Smolenski, Prof. Seth Hallstrom

09:15 – 09:40 Prof. Joanna Kalucka (Aarhus University, Denmark) Endothelial cell heterogeneity on metabolic and transcriptomic level

09:40 – 10:05 Prof. Gabor Csanyi (Augusta University, USA) Role of fluid-phase macropinocytosis in arterial foam cell formation and atherosclerosis

10:05 – 10:30 Prof. Valérie B. Schini-Kerth (University of Strasbourg, France) Potential of natural products to target senescent endothelial cells to restore vascular protection

10:30 – 10:55 Prof. Johann Wojta (Medical University of Vienna, Austria) Polarized macrophages in cardiovascular disease: good guys or bad guys or not so easy to tell?

10:55 – 11:20 Prof. Zoltán Papp (University of Debrecen, Hungary) Molecular mechanisms limiting cardiomyocyte function during inflammation

11:20 – 11:50 Coffee break

11:50 – 12:05 Prof. Attila Tóth (University of Debrecen, Hungary) The majority of severe COVID-19 patients develop anti-cardiac autoantibodies: implications for the post-COVID era

12:05 – 12:20 Prof. Miklós Fagyas (University of Debrecen, Hungary) Dysregulation of the renin-angiotensin-aldosterone system in severe COVID-19: elevated circulating endothelium-derived ACE2 levels

12:20 – 12:35 Francesco Valzano (Ludwig Boltzmann Institute for Lung Vascular Research, Austria) Single cell transcriptomics unveil vascular remodeling associated alterations in pulmonary arterial endothelial cell subpopulations in pulmonary hypertension

12:35 – 12:50 Dr Zoltán Jakus (Semmelweis University School of Medicine, Hungary) Nucleoside-modified mRNA mediated modulation of organ-specific lymphatic growth and function

12:50 – 14:00 Lunch

POSTER SESSION 2

14:00 – 15:00 Chairs: Dr Marta Pacia, Dr Marjan Enayati
Invitation to poster session 2, rapid fire presentations

15:00 – 16:30 Poster viewing – Poster Session 2 (Venue: Pałac Potockich, Rynek Główny 20, Kraków, 1st floor)

SESSION 5 Title: Inflammation in Valvular Heart Diseases
Chairs: Prof. Bruno Podesser, Prof. Piotr Buszman

16:30 – 16:55 Prof. Rainald Seitelberger (Paracelsus Medical Private University Salzburg, Austria) Inflammation of the heart: Surgical Options in Endocarditis

16:55 – 17:20 Prof. Gábor Szabó (University of Halle, Germany) Tissue-engineered valves and vascular grafts – is there a medical need in cardiac surgery?

17:20 – 17:45 Christopher Dostal (Medical University of Vienna, Austria) Dapagliflozin improves haemodynamic recovery after cardioplegic arrest in isolated working mouse heart

17:45 – 18:00 Coffee break

SESSION 6 Title: Tissue Engineering and Inflammatory Response
Chairs: Prof. Francesco Paneni, Prof. Gábor Szabó

18:00 – 18:25 Prof. Helga Bergmeister (Medical University of Vienna, Austria) Biodegradable vascular grafts and inflammation mediated remodeling

18:25 – 18:50 Prof. Anna Marsano (University of Basel, Switzerland) Stromal vascular fraction cell-based engineered patches to modulate the in vivo angiogenesis and the inflammatory host response

18:50 – 19:15 Dr Krzysztof Szade (Jagiellonian University, Poland) How does the bone marrow vasculature regenerate? Regeneration of bone marrow endothelial cells at single cell and clonal level

14th December 2022

KEYNOTE LECTURE

8:00 – 8:45 Prof. Manuel Mayr (King's College London and Medical University of Vienna, United Kingdom, Austria) Proteomics of perivascular adipose tissue reveals impaired adipose-neuronal crosstalk in obesity

SPECIAL LECTURE

8:45 – 09:10 Prof. Rob Wilkinson (University of Nottingham, United Kingdom) The role of Calcrl/Ramp2 signalling in suppression of blood-brain barrier permeability: a fishy perspective

09:10 – 09:40 Coffee break

SESSION 7 Title: Platelets and Endothelium
Chairs: Dr Marta Smeđa, Prof. Attila Kiss

09:40 – 10:05 Prof. Kerstin Jurk (University Medical Center Mainz, Deutschland) New aspects of platelets in venous thromboembolism

10:05 – 10:20 Dr Clemens Gutmann (King's College London and Medical University of Vienna, United Kingdom, Austria) Assessing Non-coding RNAs as Markers of Platelet Reactivity in the Bruneck Study

10:20 – 10:35 Dr Aneta Radziwon – Balicka (North Zealand Hospital, Denmark) Heterogeneity of eNOS-signalling by platelet subpopulations regulates adhesion and aggregation

CLOSING LECTURE

10:35 – 11:20 Prof. John W. Semple (Lund University, Sweden) Platelet immune characteristics dictate both beneficial and adverse reactions

11:20 – 11:45 Conference closing and poster awards ceremony (C. Apstein Award)