



**28th Kraków Conference on Endothelium and
10th Cardiovascular Research Days
12th -14th December 2022**

***Vascular inflammation in ageing and diseases;
from bench to bed and back***

12th December 2022

Introductory comments: **Prof. Stefan Chłopicki** (Jagiellonian University, Poland)
and **Prof. Bruno Podesser** (Medical University of Vienna, Austria)

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 I

Title: Vascular Inflammation and Vascular Ageing

10:00 – 10:25 **Prof. Zoltan Ungvari** (University of Oklahoma, United State of America)
“Cerebromicrovascular 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”

Short talk (10 min. + 5 min.)

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

11:30 – 11:45 selected from abstracts
11:45 – 12:00 selected from abstracts
12:00 – 12:15 selected from abstracts

12.15 – 13:15 Lunch

13.15 – 14.00 Invitation to Poster Session (rapid fire presentations)

14.00 – 15.00 Poster viewing – Poster Session #1

Session II

Title: Inflammation Resolution

15:00 – 15:25 **Prof. Jesmond Dalli (Queen Mary University of London, United Kingdom)**
„N-3 Docosapentaenoic acid resolvins in vascular protection”

15:25 – 15:50 **Prof. Mauro Perretti (Queen Mary University of London, United Kingdom)**
“Resolution-based therapy to control experimental cardiovascular diseases”

15:50 – 16:15 **Prof. Magnus Bäck (Karolinska University, Sweden)**
“Lipid mediators of the resolution of inflammation for vascular homeostasis”

16:15 – 16:45 Coffee break

Session III

Title: Inflammation in (non) Ischemic and Inherited Cardiomyopathies

16:45 – 17:10 **Prof. Zoltan Varga (University of Debrecen, Hungary)**
“Inflammasome activation in end-stage heart failure”

17:10 – 17:35 **Prof. Francesco Paneni (University of Zurich, Switzerland)**
“Epigenetic control of inflammation in heart failure with preserved ejection fraction”

17:35 – 18:00 **Prof. Attila Kiss (Medical University of Vienna, Austria)**
“Pathophysiological role of Tenascin C in Duchenne Muscular Dystrophy”

Short talk (10 min. + 5 min.)

18:00 – 18:15 selected from abstract
18.15 – 18.30 selected from abstract

20.00 – Welcome Dinner in the restaurant

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 IV

Title: Vascular and Cardiac Inflammation

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, United State of America)**

“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

Short talks (10 min. + 5 min.)

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 selected from abstracts

12:35 – 12:50 selected from abstracts

12.50 – 13:50 Lunch

13.50 – 15:00 Invitation to poster session (rapid fire presentations)

15.00 – 16:00 Poster viewing – Poster Session #2

Session V

Title: Inflammation in Valvular Heart Diseases

16:00 – 16:25 **Prof. Rainald Seitelberger (Paracelsus Privat University Salzburg, Austria)**

“Surgical strategies in the treatment of active endocarditis“

16:25 – 16:50 **Prof. Gábor Szabó (University of Halle, Germany)**

“Tissue- engineered valves and vascular grafts – is there a medical need in cardiac surgery?“

Short talk (10 min. + 5 min.)

16.50 – 17:05 selected from abstracts

17:05 – 17:25 Coffee break

Session VI

Title: Tissue Engineering and Inflammatory Response

17:25 – 17:50 **Prof. Helga Bergmeister (Medical University of Vienna, Austria)**

“Biodegradable vascular grafts and inflammation mediated remodeling“

17:50 – 18:15 **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“

Short talk (10 min. + 5 min.)

18:15 – 18:30 selected from abstracts

14th December 2022

Keynote lecture:

9:00 – 9:45 **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"

9.45 – 10:10 **Prof. Rob Wilkinson (University of Nottingham, United Kingdom)**

"The role of Calcrl/Ramp2 signalling in suppression of blood-brain barrier permeability: a fishy perspective"

10:10 – 10:40 Coffee break

Session VII

Title: Platelets and Endothelium

10:40 – 11:05 **Prof. Kerstin Jurk (University Medical Center Mainz, Deutschland)**

"New aspects of platelets in venous thromboembolism"

Short talk (10 min. + 5 min.)

11:05 – 11:20 selected from abstracts

11:20 – 11:35 selected from abstracts

Closing lecture:

11:35 – 12:20 **Prof. John W. Semple (Lund University, Sweden)**

"Platelet immune characteristics dictate both beneficial and adverse reactions"

12.20 – 12.45 Conference closing and poster awards ceremony (C. Apstein award)