

Program MoCA 2022

Thursday, June 16 **Basic Research: Molecular Mechanisms of Cardiovascular Aging**

Time	
09.00 – 09.10	Welcome & Introduction Salim Seyfried & Stefanie Oess
09.15 – 10.00	Keynote lecture <i>Vascular manipulations for promoting healthier aging</i> Eli Keshet (Hebrew U)
COFFEE BREAK (15 min)	
Session 1: Molecular mechanisms of cardiovascular aging (Chair: Michael Potente)	
10.15 – 10.40	<i>RNA-based mechanisms in cardiovascular ageing</i> Reinier Boon (Amsterdam UMC)
10.40 – 11.05	<i>Vascular Malformation and Aging Models in Zebrafish</i> Salim Seyfried (UP)
11.05 – 11.20	<i>Studying cardiovascular defects and metabolic changes in progeria models in zebrafish</i> Maximilian Breuer (UP)
11.20 – 11.45	<i>The GID-ubiquitin ligase complex regulates metabolism via AMPK and extends life-span in C.elegans</i> Thorsten Pfirrmann (HMU)
11.45 – 12.00	<i>Immune modulating properties of cardiac-derived extracellular vesicles (EVs)</i> Christien Beez (Charité)
LUNCH BREAK (90 min)	
Session 2: Age-related alterations in signal transduction (Chair: Reinier Boon)	
13.30 – 13.55	<i>Cardiovascular Redox-Regulation – Implications for Aging</i> Ralf Brandes (Goethe U)
13.55 – 14.20	<i>Age-related vascular cognitive impairment: role of endothelial senescence</i> Anna Csizsar (U Oklahoma)
14.20 – 14.45	<i>microRNA-29 as a common regulator of heart and brain aging</i> Alessandro Cellerino (fli)
COFFEE BREAK (15 min)	
Session 3: Metabolic changes during cardiovascular aging and disease (Chair: Anna Csizsar)	
15.00 – 15.25	<i>The impact of proteostasis on cardiac function in aging</i> Tilman Grune (DIfE)
15.25 – 15.50	<i>Metabolic decisions in vascular development and disease</i> Michael Potente (MDC/BIH)
15.50 – 16.15	<i>The NZO mouse as novel model of degenerative aortic valve disease</i> Christiane Ott (DIfE)
16.15 – 16.30	<i>Cardiac dysfunction and altered cardiac metabolism due to monoallelic Prdm16 deactivation in mice</i> Jirko Kuehnisch (Charité)
REFRESHMENTS (15 min)	
16.45 – 17.30	Plenary Discussion Current challenges and future directions for understanding aging in cardiovascular systems (Chair: Salim Seyfried) Hellmut Augustin, Tilman Grune, Michael Potente, Anna Csizsar, Eli Keshet
17.30 – 17.35	Closing Day 1 Stefanie Oess
17.35 – 19.00	Get Together

Friday, June 17 **Translational Research: Implications for Prevention & Therapy of Cardiovascular Diseases**

Time	
9.00 – 09.05	Opening Stefanie Oess
9.05 – 09.50	Keynote lecture <i>Vascular aging research: Quo vadis</i> Hellmut Augustin (U Mannheim & Heidelberg)
COFFEE BREAK (25 min)	
Session 4: Clinical and translation aspects of cardiovascular disease mechanisms (Chair: Stefanie Oess)	
10.15 – 10.40	<i>Bradykinin and Arteriogenesis - a therapeutic perspective</i> Philipp Hillmeister (MHB)
10.40 – 11.05	<i>Aging in the Long QT-Syndrom</i> Oliver Ritter (MHB)
11.05 – 11.30	<i>Gap junctions in excitable cells regulate organismal ageing by modulating mitochondrial respiration</i> Karl Emanuel Busch (HMU)
11.30 – 11.45	<i>Finding the mechanism of SUMO-mediated TRPM4 ion channel regulation</i> Gregor Sachse (MHB)
11.45 – 12.00	<i>Disturbance of the cardiac mitochondrial biogenesis in old women with myocarditis-related cardiomyopathy</i> Marie Luisa Barcena (Charité)
LUNCH BREAK (90 min)	
Session 5: Genetic traits and biomarkers of cardiovascular diseases (Chair: Christiane Ott)	
13.30 – 13.55	<i>Leveraging genetic data to identify new treatment targets for CAD</i> Jeanette Erdmann (U Lübeck)
13.55 – 14.20	<i>Development of vascular biomarkers as therapeutic targets for healthy ageing</i> Christian Heiss (U Surrey)
14.20 – 14.45	<i>Targeting HDACs in Heart Failure with preserved Ejection Fraction</i> Johannes Backs (U Heidelberg)
COFFEE BREAK (15 min)	
15.00 – 15.45	Keynote lecture <i>When and why your next heartbeat will occur and how does this change in advanced age</i> Edward Lakatta (NIA)
15.45 – 16.00	<i>International Joint Research: Funding Opportunities</i> Katrin Weise (BTU)
16.00 – 16.25	Joint discussion on future cardiovascular aging initiatives (Chair: Salim Seyfried & Stefanie Oess)
16.25 – 16.30	Closing Salim Seyfried
17.00 – 20.00	BEYOND THE SYMPOSIUM: SOCIAL EVENT



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