

The International Symposium on Resistance Arteries

ISRA

2 - 5 DECEMBER

ELSINORE - HELSINGØR DENMARK

Programme



Monday, 2. December

Afternoon	12:00-12:45	Registration & Sandwich
	12:45	Welcome
	Fundamentals of resistance arteries	
	13:00-13:35	Manuel Navedo (University of California, Davis) <i>Ion channels – key regulators of resistance arteries</i>
	13:35-13:55	Brooke O'Donnell (University of Virginia) <i>Physiologically specific roles for post-translational modifications of Pannexin 1 in vasoconstriction</i>
	13:55-14:15	Gilberto De Nucci (University of Campinas) <i>6-Nitrodopamine is a Potent Vasodilator of Mouse Mesenteric Arteries In Vitro</i>
	14:15-14:35	Rudolf Schubert (University of Augsburg) <i>Vascular smooth muscle BK channels limit ouabain-induced vasoconstriction: dual role of the Na/K-ATPase as a hub for Src-kinase and the Na/Ca-exchanger</i>
	14:35-14:55	Skye Lau (St George's University of London) <i>Influence of G-protein Receptor Kinases on CGRP-mediated Relaxations of Cerebral Arteries</i>
	14:55-15:30	Break & check in at the hotel if not already done
	15:30-16:20	10 Poster Flash Talks
16:30-18:00	Poster session 1	
Dinner	18:00	
Evening	19:15-20:00	Plenary Lecture - Ed van Bavel (Amsterdam UMC) <i>The resistance vasculature in acute ischemic stroke'</i>
	20:00-21:00	Welcome drink

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Tuesday, 3. December

Vascular imaging

Morning

09:00-09:35	Jaap van Buul (University of Amsterdam) <i>High-end microscopy reveals secrets of immune cell trafficking through the vasculature</i>
09:35-09:55	Charlotte Mehlin Sørensen (University of Copenhagen) <i>Real-time in vivo images of the microcirculation using super-resolution ultrasound imaging</i>
09:55-10:15	Merel Tebbens (University of Amsterdam) <i>Vascular heterogeneity determines leukocyte transendothelial migration efficiency</i>
10:15-10:35	Dmitry Postnov (Aarhus University) <i>Imaging pulsatility along the microvascular network: from arterioles to capillaries to venules</i>
10:35-11:00	Break

Novel Vascular Pharmacology

11:00-11:35	Iain Greenwood (St. George's, University of London) <i>Sex-dependent regulation of arteries: Recent insights</i>
11:35-11:55	Simon Comerma Steffensen (Aarhus University) <i>IP2015, a monoamine reuptake inhibitor, increases peripheral flow in genitalia of anesthetized female rats</i>
11:55-12:15	Jorge Rojo Mencía (Valladolid University) <i>Renal TRPM3 Channels in Blood Flow and Blood Pressure Regulation</i>
12:15-12:35	Thomas Jepps (University of Copenhagen) <i>Colchicine as a novel treatment for hypertension</i>
12:35-12:55	Tim Murphy (University of New South Wales) <i>Pravastatin enhances impaired endothelium-dependent dilation of uterine radial arteries from women with pre-eclampsia</i>

Lunch 12:55-14:00

Tuesday, 3. December – Continued

Inflammation & Phenotypic switching		
Afternoon	14:00–14:35	Pasquale Maffia (University of Glasgow) <i>Immune Dysregulation in Cardiovascular Disease: From Novel Mechanisms to Therapeutic Targeting</i>
	14:35–14:55	Madison Williams (East Carolina University) <i>pH-sensing GPR68 promotes the contractile phenotype in vascular smooth muscle cells</i>
	14:55–15:15	Sebastian Albinsson (Lund University) <i>Smooth muscle-specific deletion of YAP/TAZ via Itga8-Cre leads to pan-aneurysmal disease with chondrogenic differentiation and severe inflammation</i>
	15:15–15:35	Pilar Ciudad (Valladolid University) <i>Kv1.3 channel is a key player in uremia-induced vascular calcification</i>
	15:35–15:55	Rebecka Wilhelmsson (University of Gothenburg) <i>The alpha7 nicotinic acetylcholine receptor agonist PHA 568487 dampens inflammation in PBMCs from patients with newly discovered coronary artery disease</i>
	15:55–16:10	Sponsored Presentation - MaxCyte
	16:10–16:30	Break
	16:30–18:00	Poster session 2
Dinner	18:00	
Pulmonary Circulation		
Evening	19:15–19:50	Angel Cogolludo (Universidad Complutense Madrid) <i>Potassium channels in pulmonary vascular physiology and pathophysiology</i>
	19:50–20:10	Megan Tuineau (The University of New Mexico School of Medicine) <i>The loss of mitochondrial acid-sensing ion channel 1a is associated with mitochondrial dysfunction in pulmonary arterial smooth muscle cells following chronic hypoxia</i>
	20:10–20:30	Luca Soattin (University of Copenhagen) <i>Targeting SK-channels in the ‘pulmonary vein sleeve-myocardium’ as a strategy to reduce atrial ectopies</i>

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Wednesday, 4. December

Cerebrovascular disease	
Morning	08:30-09:05 Osama Harraz (University of Vermont) <i>Cerebrovascular mechanosensation and blood flow control in health and disease</i>
	09:05-09:25 Sohom Mookherjee (University of Utah) <i>Importance of cerebrovascular endothelial cell autophagy in acute ischemic stroke</i>
	09:25-09:45 Melanie Lambert (Montreal Heart Institute) <i>Cellular senescence contributes to vascular cognitive impairment in male but not female atherosclerotic mice</i>
	09:45-10:05 Akos Koller (Semmelweis University) <i>The differential expressions of enzymes correspond to the opposite flow-induced responses of basilar and middle cerebral arteries</i>
	10:05-10:25 Christian Aalkjær (Aarhus University) <i>A Protective Role of the Calcium-Activated Chloride Channel, TMEM16A, in Acute Ischemic Stroke Outcome</i>
	10:25-11:00 Break
The Coronary Circulation and HFpEF	
	11:00-11:35 Neena Kalia (University of Birmingham) <i>Imaging the coronary microcirculation in vivo – preventing damage caused by hyperglycaemia</i>
	11:35-11:55 Zsolt Bagi (Augusta University) <i>Phosphodiesterase 9A Inhibition Improves Coronary Microvascular Disease in Heart Failure with Preserved Ejection Fraction through Peroxiredoxin 5 Antioxidant Pathways</i>
	11:55-12:15 Chris Garland (University of Oxford) <i>Asymmetric dimethylarginine (ADMA) and small coronary artery vasospasm</i>
Lunch	12:15-13:15

Wednesday, 4. December – Continued

Hypertension	
Afternoon	<p>13:15–13:50</p> <p>Camilla Ferreira Wenceslau (University of South Carolina) <i>Reprogramming endothelial cells to prevent and treat hypertension</i></p>
	<p>13:50–14:10</p> <p>Holger Schneider (University Hospital LMU Munich) <i>Synergistic cardiorenal injury by combined high salt diet and endogenous aldosterone excess</i></p>
	<p>14:10–14:30</p> <p>Teresa Perez-Garcia (Valladolid University) <i>Role of TRPM8 channels in vascular tone and blood pressure regulation</i></p>
	<p>14:30–14:50</p> <p>Swapnil Sonkusare (University of Virginia) <i>Signaling from smooth muscle to endothelium via TNF elevates blood pressure in obesity</i></p>
	<p>14:50–15:10</p> <p>Joakim Bastrup (University of Copenhagen) <i>Proteomic profiling identifies shared exosome dysregulation in hypertensive rats and human Alzheimer’s Disease progression</i></p>
	<p>15:10–15:30</p> <p>José Lopez-Lopez (Valladolid University) <i>P2Y6 and ATI Receptor Crosstalk in essential hypertension: A Novel Therapeutic Target</i></p>
	<p>15:30</p> <p>Free afternoon</p>
Dinner	<p>18:00 – Dinner is INCLUDED in your registration. Please let us know if you plan to eat elsewhere to prevent food waste</p>



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Thursday, 5. December

Diabetes	
Morning	09:00-09:35 Ed Eringa (Amsterdam UMC) <i>Perivascular adipose tissue dysfunction as a cause of cardiometabolic disease</i>
	09:35-09:55 Ulf Simonsen (Aarhus University) <i>Effect of transglutaminase 2 modulation in resistance arteries from diabetic and non-diabetic patients</i>
	09:55-10:15 Sophie Saxton (University of Manchester) <i>Manipulating the immune system to improve cardiovascular function in obesity</i>
	10:15-10:30 Sponsored Presentation - University of California, Davis
	10:30-11:00 Break
	Ageing
11:00-11:35 Stefano Tarantini (University of Oklahoma Health Sciences Center) <i>Endothelial Dysfunction and Mitochondrial Dysregulation: Mechanisms of Microvascular Aging and Vascular Fragility</i>	
11:35-11:55 Tasnim Mohaissen (University of Copenhagen) <i>Exploring the Interaction Between Erythrocytes and the Vascular Wall</i>	
11:55-12:15 Pauline Mury (Montreal Heart Institute) <i>Targeting vascular senescence and inflammation with the senolytic quercetin is more beneficial in men than in women atherosclerotic patients</i>	
12:15-12:35 Line Mathilde Hansen (Aarhus University) <i>Sex-specific differences in ischemia-reperfusion outcomes in aged mice</i>	
12:35-12:50 Sponsored Presentation - BlueCell	
Lunch	12:50-14:00

Thursday, 5. December – Continued

Exercise & Sex Differences		
Afternoon	14:00-14:35	Russell Richardson (University of Utah) <i>Exercise and oxygen delivery to skeletal muscle: The ultimate vascular challenge in health and disease</i>
	14:35-14:55	Mohammed El-Lakany (Western University Ontario) <i>Oxygen Signalling in Mouse Skeletal Muscle: Mechanism of Capillary-to-Arteriole Conduction</i>
	14:55-15:15	Dillon McClintock (Washington University in St. Louis) <i>Sex-Dependent Effects of Adiposity-Driven Hypertension on Mesenteric Arterial Mechanics</i>
	15:15-15:35	Madeline Nieves-Cintrón (University of California Davis) <i>E-cigarette Exposure Alters cAMP Signaling in Vascular Smooth Muscle: Sex-Specific Effects and Implications for Cardiovascular Health</i>
	15:35-16:00	Break
	16:00-16:45	Plenary Lecture - Susanne van Veluw (Harvard University) <i>Mechanisms of Microvascular Injury in Cerebral Amyloid Angiopathy</i>
	16:45	Close of conference – Drinks and Prizes
Dinner	18:30	Gala Dinner at M/S Maritime Museum of Denmark

