

Program – Joint Meeting of the Gesellschaft für Mikrozirkulation und vaskuläre Biologie (GfMVB) and the British Microcirculation and Vascular Biology Society (BMVBS)

Thursday July 7th

07.30 – 08.45	Welcome & Registration
07.30 – 08.30	Registration
08.30 – 08.45	Welcome <i>Wolfgang M. Kuebler</i>
08.45 – 10.45	Microcirculation in heart disease (sponsored by CRC 1470) Chair: <i>Henning Morawietz, Neena Kalia</i>
08.45 – 09.15	<i>Nicola Smart</i> “Stimulating vessel growth to repair damaged hearts”
09.15 – 09.35	<i>Gabriele G. Schiattarella</i> “Lipotoxicity-Induced Vascular Alterations in Heart Failure with Preserved Ejection Fraction (HFpEF)”
09.35 – 10.50	<i>Julian Wagner</i> “Cellular senescence impairs the innervation of the aging heart”
09.50 – 10.05	<i>Felix A. Trogisch</i> “Endothelial cells drive organ fibrosis and dysfunction by inducing the transcription factor Sox9”
10.05 – 10.35	<i>Bin Zhou</i> “Priming endocardial cells for coronary angiogenesis in the developing heart”
10.45 – 11.15	Coffee break
11.15 – 12.10	Aletta Jacobs Award session Chair: <i>Nicolle Kraenkel, Jana Grune</i>
11.15 – 11.30	<i>Anita Tamiato</i> “RGS5 and cardiac pericytes during ageing”
11.30 – 11.45	<i>Lucija Fleisinger</i> “Delineating the transcriptional regulators of KLF2 using enhancer analysis”
11.45 – 12.00	<i>Maria Geld</i> “Tie1 – Angiopoietin-2 controls Vegf signaling output and links cranial vessel formation with central nervous system development”
12.10 – 12.30	Terence Ryan Award session Chair: <i>Lopa Leach</i>
12.10 – 12.25	<i>Monica Gamez</i> “Heparan sulphate contributes to microvascular permeability and can be therapeutically targeted in diabetes”
12.30 – 14.15	Poster session 1, lunch & industry business pitch Chair: <i>Szandor Simmons</i>
13.00 – 13.20	<i>Bianca Rossini</i> (ADInstruments) “Making science easier”
13.20 – 13.40	<i>Dieter Fuchs</i> (FUJIFILM VisualSonics) “Macro- and Microvascular Function assessment in the Rodent Heart, Liver, and Kidney”
13.40 – 14.00	<i>Felicitas Munegast</i> (TissueGnostics) “Contextual Tissue Cytometry Using Precision Microscopy with Artificial Intelligence”
14.15 – 16.15	Infection and vascular permeability (sponsored by CRC TR84 & CRC 1470) Chair: <i>Norbert Suttrop, Becky Foster</i>
14.15 – 14.45	<i>Brant Isakson</i> “Purinergic signaling and endothelial cell barrier function”
14.45 – 15.00	<i>Eleonora Mameli</i> “Defective autophagy impairs endothelial cells’ function and blood-brain barrier integrity”
15.00 – 15.15	<i>Maximiliano Arce</i> “A high throughput drug screening revealed novel pharmacological agents to treat Cerebral Cavernous Malformation”
15.15 – 15.30	<i>Lasti Erfinanda</i> “Loss of endothelial CFTR drives barrier failure and edema formation in lung infection and can be targeted by CFTR potentiation”
15.30 – 16.00	<i>Steffen Massberg</i> “Thrombosis – an inflammatory process?”
16.15 – 16.45	Coffee break
16.45 – 18.45	DZHK-Session - Angiogenesis and vasculogenesis (partly sponsored by CRC 1470) Chair: <i>Holger Gerhardt, Andrew Benest</i>
16.45 – 17.15	<i>Carmen Ruiz de Almodóvar</i> “Neuro-vascular crosstalks in development and disease”
17.15 – 17.30	<i>Jason Amartey</i> “A humanised neutralising antibody to VEGF-A165b induces collateral formation in obese and diabetic models of peripheral arterial disease”

17.30 – 17.45	<i>Bianca Nitzsche</i> “Coalescent angiogenesis—evidence for a novel concept of vascular network maturation”
17.45 – 18.00	<i>Jean Eberlein</i> “Apelin signaling restricts the blood stem cell-forming hemogenic endothelium in the dorsal aorta”
18.00 – 18.30	<i>Michael Potente</i> “Metabolic guidance of angiogenic blood vessel growth”
18.45 – 22.00	Get together at Kaiserin-Friedrich-Foundation (conference venue)

Friday July 8th

08.00 – 10.00	Atherosclerosis and inflammation (sponsored by SYMPATH & CRC 1470) Chair: <i>Martin Witzentrath, Dean Kavanagh</i>
08.00 – 08.30	<i>Peter Weinberg</i> “Haemodynamic wall shear stress, endothelial permeability and inflammation in the localisation of atherosclerosis”
08.30 – 08.45	<i>Claudio Raimondi</i> “Neuropilin-1 prevents endothelial activation and interacts with TGFBR2 and VE-cadherin to promote adherens junction stability”
08.45 – 09.00	<i>Julie N. Christensen</i> “Endothelial Interferon Regulatory Factor 3-activation links inflammation and phenotypic changes through metabolic rewiring”
09.00 – 09.15	<i>Henning Morawietz</i> “NADPH oxidase 4 and endothelium-derived hyperpolarization factor play a role in maintaining vascular function in small resistance arteries”
09.15 – 09.45	<i>Oliver Soehnlein</i> “Neutrophils in chronic inflammation: from physiology to intervention”
10.00 – 10.30	Coffee break
10.30 – 11.40	Hermann Rein Award session Chair: <i>Ferdinand le Noble, Rabea Hinkel</i>
10.30 – 10.50	<i>Young-June Jin</i> “Protein kinase N2 mediates flow-induced endothelial NOS activation and vascular tone regulation”
10.50 – 11.10	<i>Susanne Fleig</i> “Loss of vascular endothelial Notch signaling promotes Tertiary Lymphoid Structure formation”
11.10 – 11.30	<i>Rainer Kaiser</i> “Procoagulant platelet sentinels mediate inflammatory hemostasis”
11.40 – 12.15	Keynote lecture – Glycocalyx (sponsored by CRC 1449) Chair: <i>Cor de Wit, Jacqueline Whatmore</i>
11.40 – 12.10	<i>Bingmei Fu</i> “Glycocalyx in tumor metastasis”
12.15 – 14.00	Poster session 2 & lunch
14.00 – 16.00	Pulmonary Hypertension (sponsored by DZL) Chair: <i>Wolfgang Kuebler, Robert Szulcek</i>
14.00 – 14.30	<i>Nick Morrell</i> “The role of BMP9 in endothelial protection”
14.30 – 14.45	<i>Jurjan Aman</i> “Epigenetic modification of the VWF promotor drives platelet aggregation on the pulmonary endothelium in chronic thromboembolic pulmonary hypertension”
14.45 – 15.00	<i>Shiau H. Chen</i> “Single-cell RNA-seq profiling of mouse endothelial cells in response to pulmonary arterial hypertension”
15.00 – 15.15	<i>Thomas Korff</i> “NFAT5/TonEBP limits muscularization of pulmonary arteries in the hypoxic lung by restricting Pdgfb expression in capillary ECs”
15.15 – 15.45	<i>Soni Pullamsetti</i> “Epigenetic landscape of pulmonary hypertension: Emerging therapeutic avenue”
16.00 – 16.30	Coffee break
16.30 – 18.30	Renal microvasculature (sponsored by CRC 1365) Chair: <i>Susanne Fleig, David Bates</i>
16.30 – 17.00	<i>Kenton Arkill</i> “The Structural, Functional and Compositional Relationship in the Glomerulus”
17.00 – 17.15	<i>Lorna Milne</i> “Imaging Mass Spectrometry As A Novel Method of Characterizing Glycosaminoglycans in Microvasculature”

17.15 – 17.30	<i>Felix Behrens</i> “The interplay of uremic toxins and extravascular vesicles in the pathophysiology of cardiovascular disease in chronic kidney disease”
17.30 – 17.45	<i>Raina Ramnath</i> “MMP9-mediated endothelial glycocalyx shedding as a potential mechanism in renal microvascular damage in sepsis-associated acute kidney injury (sAKI)”
17.45 – 18.15	<i>Becky Foster</i> “Defending the glomerular endothelium in diabetic kidney disease”
18.30 – 18.40	closing remarks
19.00 – 22.00	Social Event at Ballhaus Berlin