Principal Investigators of the CRC1366

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Organization

Prof. Dr. Hellmut Augustin
Spokesperson of the CRC1366

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Please register at www.sfb1366.de
Friday, March 1, 2019

9:00  Registration
     Alte Brauerei, Röntgenstr. 7
     68167 Mannheim
     Lecture Hall, Room No. AB137, ground floor

9:30 - 9:45  Welcome addresses

Sergij Goerdt
Dean of the Medical Faculty
Mannheim, Heidelberg University and Vice Spokesperson of the CRC1366

Hellmut Augustin
Spokesperson of the CRC1366

Session 1
Chair  Jörg Heineke

9:45 - 10:20  Vascular growth factor regulation of coronary vessels
Kari Alitalo, University of Helsinki, Finland

10:20 - 10:55  Age-related angiocrine signals in homeostasis and disease
Anjali Kusumbe, University of Oxford, UK

10:55 - 11:30  Vascular GPCR signaling: The hippo in the room?
Silvio Gutkind, University of California, San Diego, USA

11:30 - 12:05  Deconvoluting hematopoietic stem cells at single cell resolution
Simon Haas, HI-STEM & DKFZ, Heidelberg, Germany

12:05 - 13:00  Lunch break

Session 2
Chair  Carmen Ruiz de Almodovar

13:00 - 13:35  Liver endothelial cells at single cell resolution
Shalev Itzkovitz, Weizmann Institute, Rehovot, Israel

13:35 - 14:10  Reconstruction of human development using single cell transcriptomics
Barbara Treutlein, ETH Zürich, Switzerland and MPI for Evolutionary Anthropology, Leipzig, Germany

14:10 - 14:45  PI3KKing blood vessels
Mariona Graupera, IDIBELL, Barcelona, Spain

14:45 - 15:20  Organotypic features of vascular leakage
Lena-Cleasson-Welsh, University of Uppsala, Sweden

15:20 - 15:30  Concluding remarks and farewell

Concept of the CRC1366

Vascular dysfunction accounts for the vast majority of human mortality. The better molecular and functional understanding of organotypic vascular functions therefore holds great potential for the development of novel angiotargeted therapies to combat major life-threatening and socioeconomically important chronic diseases. In the past, the cells of the vessel wall (endothelial cells and surrounding mural cells) have primarily been viewed and studied as a rather passive interface that merely responds to exogenous cues (e.g., cytokines, extracellular matrix, mechanical forces). In contrast, work within the CRC1366 “Vascular Control of Organ Function” is at the forefront of a paradigm shift that recognizes the vessel wall as regulatory gatekeeper that actively controls its microenvironment through paracrine acting cytokines (angiokines). The vasculature thereby exerts critical instructive functions in diverse physiological and pathological processes ranging from development, regeneration and homeostasis to inflammation, metabolism, aging, cancer and metastasis.