



Meeting of the *German Society for Microcirculation and Vascular Biology (GfMVB)* October 25 – 27, 2019 in Heidelberg

Friday, October 25

12:00-13:00 Welcome & Registration

13:00-13:10 OPENING

Symposium 1: Organ-specific vascular features (13:10 - 15:10)

Chairs: tba

13:10-13:40 **Introductory Keynote Lecture** - *Eckhard Lammert* (Univ. of Düsseldorf, Germany)
“Angiocrine signals - past & present”

13:40-14:05 **Lecture 1** - *Sergij Goerd* (Heidelberg University, Mannheim, Germany)
“Hepatic Angiodiversity: Vascular Control of Liver Function & Disease Processes”

14:05-14:30 **Lecture 2 (DZHK lecture)** - *Karina Yaniv* (Weizmann-Institute of Science, Rehovot, Israel)
„Vascular support of organ growth and regeneration“

14:30-14:45 Short talks (selected from abstracts) - tba

14:45-15:00 Short talks (selected from abstracts) - tba

15:10-15:40 COFFEE BREAK

Symposium 2: Vascular homeostasis, aging and repair (15:40 - 17:40)

Chairs: tba

15:40-16:10 **Introductory Keynote Lecture** - *Stefanie Dimmeler* (University of Frankfurt, Germany)
„Endothelial cell plasticity in repair & regeneration“

16:10-16:35 **Lecture 1 (DZHK lecture)** - *Anna Randi* (Imperial College, London, UK)
“Transcriptional and epigenetic mechanisms controlling vascular health“

16:35-17:00 **Lecture 2 (SFB 834 lecture)** - *Anjali Kusumbe* (University of Oxford, UK)
„Organotypic angiocrine signals in health and disease“

17:00-17:15 Short talk (selected from abstracts) – tba

17:15-17:30 Short talk (selected from abstracts) – tba

17:40-18:10 COFFEE BREAK

Aletta Jacobs memorial - young investigator award session (18:10 - 19:00)

Introduction (Ferdinand le Noble)

18:15-18:30 Short talks (selected from abstracts) – tba

18:30-18:45 Short talks (selected from abstracts) – tba

18:45-19:00 Short talks (selected from abstracts) – tba

Welcome reception & Poster session 1 (19:00 - 20:30)

PhD/MD student party (~20:30-...)

Saturday, October 26

Symposium 3: Vascular metabolism (8:30 - 10:30)

Chairs: tba

- 8:30-9:00 **Introductory Keynote Lecture - Michael Potente** (Max Planck Institute, Bad Nauheim, GER)
"Control of endothelial quiescence by FOXO regulated metabolites"
- 9:00-9:25 **Lecture 1 (DIAMICOM lecture) - Christian Rask-Madsen** (Joslin Diabetes Center, Boston, USA)
"Endothelial insulin resistance as a cause of endothelial cell activation"
- 9:25-9:50 **Lecture 2 - Massimo Santoro** (University of Padua, Italy)
„Metabolic control of translation during angiogenesis“
- 9:50-10:05 Short talks (selected from abstracts) – tba
- 10:05-10:20 Short talks (selected from abstracts) – tba

10:30-11:00 COFFEE BREAK

Hermann Rein - young investigator award session (11:00 - 12:00)

Introduction (Henning Morawietz)

- 11:10-11:25 Short talks (selected from abstracts) – tba
- 11:25-11:40 Short talks (selected from abstracts) – tba
- 11:40-11:55 Short talks (selected from abstracts) – tba

12:00-14:30 LUNCH & Lunch Workshops (13:00-14:00), Poster session 2

Symposium 4: Biomechanical control of vascular differentiation & function (14:30 - 16:30)

Chairs: tba

- 14:30-15:00 **Introductory Keynote Lecture - Stefan Offermanns** (Max Planck Institute, Bad Nauheim, GER)
"The role of endothelial mechanotransduction in vascular physiology & pathology"
- 15:00-15:25 **Lecture 1 - Lydia Sorokin** (University of Münster, Germany)
"The role of vascular endothelial laminins in vascular differentiation & shear responses"
- 15:25-15:50 **Lecture 2 - Ferdinand le Noble** (KIT, Germany)
"Selective targeting of artery size and remodeling"
- 15:50-16:05 Short talks (selected from abstracts) – tba
- 16:05-16:20 Short talks (selected from abstracts) – tba

16:30-17:00 COFFEE BREAK

Symposium 5: Microcirculatory tumor progression and metastasis (17:00 - 19:00)

Chairs: tba

- 17:00-17:30 **Introductory Keynote Lecture - Gabriele Bergers** (Leuven Center for Cancer Biology, Belgium)
"tba"
- 17:30-17:55 **Lecture 1 - Michele De Palma** (ISREC-Swiss Institute for Experimental Cancer Research, Switzerland)
"tba"
- 17:55-18:20 **Lecture 2 - Lena Claesson-Welsh** (Uppsala University, Sweden)
"Endothelial junctions & metastatic spread"
- 18:20-18:35 Short talks (selected from abstracts) – tba
- 18:35-18:50 Short talks (selected from abstracts) – tba

19:00 -... Social Event

Sunday, October 27

Symposium 6: Mural-endothelial crosstalk (8:30 - 10:30)

Chairs: tba

- 8:30-9:00 **Introductory Keynote Lecture - Hellmut Augustin** (Heidelberg University / German Cancer Research Center, Germany) „Pericyte contribution towards tumor progression & metastasis“
- 9:00-9:25 **Lecture 1 - Michaela Kuhn** (University of Würzburg, Germany)
“Endothelial C-Type Natriuretic Peptide regulates microcirculatory flow & barrier functions“
- 9:25-9:50 **Lecture 2 - Andrew Baker** (The University of Edinburgh, UK)
„Vascular cell function in injury & repair“
- 9:50-10:05 Short talks (selected from abstracts) – tba
- 10:05-10:20 Short talks (selected from abstracts) – tba

10:30-11:00 COFFEE BREAK

Symposium 7: Endothelial cell-cardiomyocyte communication (11:00 - 13:00)

Chairs: tba

- 11:00-11:30 **Introductory Keynote Lecture (DZHK lecture) - Riikka Kivelä** (University of Helsinki, Finland)
“Endothelial cell regulation of cardiomyocyte growth & homeostasis“
- 11:30-11:55 **Lecture 1 - Andreas Fischer** (Heidelberg University / German Cancer Research Center, Germany)
„Angiocrine signaling in the heart“
- 11:55-12:20 **Lecture 2 - Johannes Backs** (Heidelberg University, Germany)
„Role of histone deacetylases for perivascular fibrosis and HFpEF“
- 12:20-12:35 Short talks (selected from abstracts) – tba
- 12:35-12:50 Short talks (selected from abstracts) – tba

13:00-14:00 LUNCH

Symposium 8: Immuno-vascular communication skills (14:00 - 16:00)

Chairs: tba

- 14:00-14:30 **Introductory Keynote Lecture - Jaap van Buul** (Sanquin Research & Landsteiner Laboratory, Amsterdam, NLD) „Leukocyte transendothelial migration: the endothelium in control“
- 14:30-14:55 **Lecture 1 - Barbara Walzog** (University of Munich, Germany)
„Integrin signalling and neutrophil trafficking in innate immunity“
- 14:55-15:20 **Lecture 2 (SFB 914 lecture) - Florian Gärtner** (Institute of Science and Technology, Austria)
"Migrating platelets safeguard the inflamed vasculature"
- 15:20-15:35 Short talks (selected from abstracts) – tba
- 15:35-15:50 Short talks (selected from abstracts) – tba

16:00 Awards & Closing remarks

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