



FOR 2325
Interactions at the Neurovascular Interface

International Symposium

**“Cellular and Molecular Processes
at the Neurovascular Interface”**

April 24 – 25, 2018

Campus Westend
Casinogebäude, Conference room 1.801
Goethe-Universität, Frankfurt am Main
Norbert-Wollheim-Platz 1

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April 24, 2018

08:45 - 09:00 Welcome message

Scientific Session 1.

Chair: Rodrigo Diéguez-Hurtado (Max Planck Institute for Molecular Biomedicine, Münster)

09:00 - 09:35 **Anne Eichmann.** Yale Cardiovascular Research Center (New Haven, USA)
Guidance receptor control of vascular development and function

09:45 - 10:20 **Amparo Acker-Palmer.** Institute of Cell Biology and Neuroscience, Goethe University (Frankfurt am Main, Germany)
Signaling at the neurovascular interface

10:30 - 11:00 *Coffee break**

11:00 - 11:35 **Yoh-suke Mukoyama**. Laboratory of Stem Cell and Neuro-Vascular Biology, National Heart, Lung, and Blood Institute – NIH (Bethesda, USA)
Unexpected roles of myeloid cells in neuronal and vascular development

11:45 - 12:20 **Jaime Grutzendler**. Departments of Neurology and Neuroscience; Yale School of Medicine (New Haven, USA)
In vivo optical interrogation of neurovascular regulation and pathology

12:30 - 13:30 *Lunch**

Scientific Session 2.

Chair: Robert Luck (Heidelberg University)

13:30 - 14:05 **Gou Young Koh**. Center for Vascular Research, Korea Advanced Institute of Science and Technology (Daejeon, South Korea)
Novel regulators for formation and maintenance of neurovascular interface

14:15 - 14:50 **Peter Vajkoczy**. Department of Neurosurgery, Charité Univesitätsmedizin (Berlin, Germany)
Role of VEGF in repair and recovery after brain stroke

15:00 - 15:35 **Gray Camp**. Modern and Archaic Human Cell Biology, Max Planck Institute for Evolutionary Anthropology (Leipzig, Germany)
Dissecting communication in multilineage microenvironments using single-cell transcriptomics

15:45 - 16:15 *Coffee break**

Scientific Session 3.

Chair: Kathleen Hübner (Max Planck Institute for Molecular Biomedicine, Münster)

16:15 - 16:50 **Christiana Ruhrberg**. UCL Institute of Ophthalmology, University College London (United Kingdom)
A novel source of endothelial cells for brain vascularisation

- 17:00 - 17:35 **Benoit Vanhollebeke.** Laboratory of Neurovascular Signaling, Université libre de Bruxelles (Belgium)
Molecular dissection of the single-cell control mechanism of brain angiogenesis and BBB formation in the zebrafish model
- 17:45 - 18:20 **Johann Bollmann.** Neural Circuits and Behavior, University of Freiburg (Germany)
The zebrafish visual system: from circuits to behavior
- 18:30 General announcements
- 19.00 *Dinner for invited speakers and FOR2325 members**

April 25, 2018

Young Investigator Meeting

Scientific Session 4.

Chair: Andreas van Impel (University of Münster)

- 09:00 - 09:35 **Victoria Bautch.** Department of Biology and McAllister Heart Institute, University of North Carolina at Chapel Hill (USA)
New roles for BMP in blood vessels
- 09:45 - 10:20 **Michael Potente.** Angiogenesis and Metabolism Laboratory, Max Planck Institute for Heart and Lung Research (Bad Nauheim, Germany)
Metabolic regulation of vessel growth and quiescence
- 10:30 - 11:00 *Coffee break**

Scientific Session 5.

Chair: Carmen Ruiz de Almodóvar (Heidelberg University)

- 11:00 - 11:15 **Rodrigo Diéguez-Hurtado.** Department of Tissue Morphogenesis, Max Planck Institute for Molecular Biomedicine (Münster, Germany)
Control of brain vascular morphogenesis by pericytes

11:20 - 11:35 **Kathleen Hübner**. Angiogenesis Laboratory, Max Planck Institute for Molecular Biomedicine (Münster, Germany)

The role of Wnt/ β -catenin signaling during brain capillary angiogenesis

11:40 - 11:55 **Yvonne Padberg**. Institute of Cardiovascular Organogenesis and Regeneration, University of Münster (Germany)

Molecular and functional characterization of macromolecular uptake by meningeal lymphatic endothelial cells

12:00 - 13:00 *Lunch**

Tailored Session - Publishing and Research integrity

Chair: Bettina Kirchmaier (Goethe University, Frankfurt am Main)

13:00 - 13:45 **Jan Brocher**. CEO BioVoxel (Ludwigshafen, Germany)

Correct image editing for publications preventing image manipulation and data alterations

13:55 - 14:40 **Bernd Pulverer**. Head of Scientific Publications at EMBO (Heidelberg, Germany)

How to share reproducible data. Research integrity – a view from the journals

14:50 Closing remarks

** Coffee breaks and meals are provided only for speakers and FOR2325 members.*

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Optional meeting point at the lobby of the Mercure Hotel Kaiserhof 30 minutes before the start of the program for going together to the venue.