



FOR 2325
Interactions at the Neurovascular Interface

International Symposium
and Young Investigator Meeting

September 28-29, 2022

Max Planck Institute for Molecular Biomedicine
Röntgenstraße 20
48149 Münster
Germany

Wednesday, September 28, 2022

The International Symposium

09:00 - 09:15 Welcome message by Ralf Adams

Scientific Session 1.

Chair: Ralf Adams (Max Planck Institute for Molecular Biomedicine, Münster)

09:15 - 09:50 **Rui Benedito.** Spanish National Center for Cardiovascular Research
(Madrid, Spain)

Unravelling vascular biology with multispectral single cell genetics

10:00 - 10:35 **Luisa Klotz.** University Hospital Münster (Münster, Germany)

*Enhanced pathogenicity of Th17 cells due to natalizumab treatment-
implications for MS disease rebound*

10:35 - 11:15 *Coffee break**

11:15 - 11:50 **Axel Montagne.** UK Dementia Research Institute (Edinburgh, UK)

Cerebrovascular and inflamm-ageing link to dementia

12:00 - 12:35 **Jasmin Hefendehl.** Buchmann Institute for Molecular Life Sciences, Goethe University Frankfurt (Frankfurt am Main, Germany)
The role of the NVU in Alzheimer's Disease

12:45 - 14:00 *Lunch**

Scientific Session 2.

Chair: Mara Pitulescu (Max Planck Institute for Molecular Biomedicine, Münster)

14:00 - 14:35 **Nicolas Renier.** Paris Brain Institute, Sorbonne University (Paris, France)
A new outlook on activity-dependent control of the development and maintenance of the cerebral vasculature

14:45 - 15:20 **Blanca Díaz-Castro.** UK Dementia Research Institute (Edinburgh, UK)
Morphological and molecular architecture of astrocyte-vasculature interactions

15:30 – 16:00 *Coffee break**

16:00 – 16:20 *Short Talk 1*

Bettina Kirchmaier. Goethe Universität Frankfurt (Frankfurt am Main, Germany)
Sema3ab-Nrp1a signaling controls synaptic lamination in the zebrafish optic tectum

16:25 – 16:45 *Short Talk 2*

Rodrigo Dieguez-Hurtado. Max Planck Institute for Molecular Biomedicine, (Münster, Germany)
Mural cell differentiation in the central nervous system: dynamics and functional implications

16:50 – 17:25 **Stefan Liebner.** Institute of Neurology, University Hospital Frankfurt am Main (Frankfurt, Germany)
Microenvironmental control of vascular barrier function in the CNS

18:00 *BBQ at MPI (for invited participants only)*

** Coffee breaks and Lunch for invited speakers and members of the FOR2325 research unit only*



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The Young Investigator Meeting

Scientific Session 1.

Chair: Anca-Tabita Godoi-Filip (Max Planck Institute for Molecular Biomedicine)

09:00 – 09:40 **Matthew Campbell.** Trinity College (Dublin, Ireland)

Regulation of the blood brain barrier in epilepsy

09:40 – 10:20 **Anne-Clémence Vion.** L'Institut du Thorax (Nantes, France)

Understanding the Cellular Mechanisms of Intracranial Aneurysm Formation

10:20 – 10:50 Coffee break*

Scientific Session 2.

Chair: Jonas Stewen (Max Planck Institute for Molecular Biomedicine)

10:50 – 11:30 **Julianna Kele-Olovsson.** Karolinska Institute (Stockholm, Sweden)

Sex dependent and independent Inflammatory signature dynamics in resident microglia and infiltrating macrophages after neonatal hypoxic ischemic injury

11:30 – 12:10 **Giuseppe Locatelli.** Novartis Institutes for BioMedical Research
(Basel, Switzerland)

Dynamics of myeloid cells at CNS barriers during neuroinflammation

12:10 – 13:30 Lunch Break*

Scientific Session 3.

Chair: Anusha Aravamudhan, (Max Planck Institute for Molecular Biomedicine)

13:30 – 14:30 **Michele Marass.** Max Planck Institute of Molecular Cell Biology and Genetics
(Dresden, Germany)

How to enjoy the publication process

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