

**Program of the SFB/CRC-TR 128 International Symposium**

**Multiple sclerosis and related disorders in 2024:**

**Past, present, and future**

28 – 30 April 2024, Münster, Germany

For SFB/CRC-TR 128 “Initiating/Effector versus Regulatory Mechanisms in Multiple Sclerosis - Progress towards Tackling the Disease”

**Monday, 29 April (venue: Castle of the Münster University, Schlossplatz 2, 48149 Münster, Aula)**

Talks: 20 mins (15+5); Young Investigator Talks: 10 mins (7+3)

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**08:00-08:30** Welcome Coffee and Snacks

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**Session 1: MS and beyond: what have we learned, what is to be expected?**

(08:30-10:10)

Chair: *Frauke Zipp, Heinz Wiendl*

08:30-08:50	Frauke Zipp + Heinz Wiendl	<b>Looking back 10 years of evolution in the MS field: Where do we need to go?</b>
08:50-09:10	<a href="#">Jonathan Kipnis</a>	<b>New insights into brain-immune interactions</b>
09:10-09:30	<a href="#">Roland Liblau</a>	<b>Tissue-resident memory T cells and chronicity of CNS inflammatory diseases</b>
09:30-09:50	<a href="#">Britta Engelhardt</a>	<b>Back to the future: The role of antigen- presentation at the brain barriers to MS pathogenesis</b>
09:50-10:10	<a href="#">Burkhard Becher</a>	<b>Neuroprotection through inflammatory cytokines</b>

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10:10-10:30 Coffee Break

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**Session 2: Understanding progression and repair: myelin in the focus**

(10:30-11:50)

Chair: *Lydia Sorokin*

10:30-10:50	Martin Kerschensteiner	<b>Can surviving oligodendrocytes contribute to remyelination?</b>
10:50-11:10	Tanja Kuhlmann	<b>Consequences of inflammation for oligodendrocytes in MS lesions</b>
11:10-11:30	<a href="#">Peter Calabresi</a>	<b>Complement component C3 defines disease associated glial subtypes mediating neuroinflammation and retinal pathology</b>
11:30-11:50	<a href="#">Manuel Friese</a>	<b>Neuronal inflammatory stress response in multiple sclerosis</b>

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**Poster session and lunch (Poster in the entrance hall, ground floor;  
lunch in the tent forecourt castle)**

(11:50-13:20)

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**Session 3: Imaging in the focus**

(13:20-14:20)

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Chair: *Albrecht Stroh, Sergiu Groppa*

13:20-13:40	Vinzenz Fleischer	<b>Structural Brain Networks in Multiple Sclerosis</b>
13:40-14:00	<a href="#">Benedetta Bodini</a>	<b>Positron Emission Tomography in Multiple Sclerosis: Past, Present, and Future</b>
14:00-14:20	<a href="#">Alexander Flügel</a>	<b>Imaging T-cell-mediated autoimmunity</b>

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14:20-14:40 Coffee break

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**Session 4: Young investigators' talks (10 mins (7+3))**

(14:40-15:40)

Chair: *Ralf Gold*

14:40-15:40 Beatrice Wasser: **Interference with AMPA receptor signaling ameliorates neuroinflammation via regulation of the immune compartment**  
Lisa Richter: **Role of IL-6 in shaping local immune milieus in the CNS**  
Louisa Müller-Miny: **How can CSF flow cytometry help diagnose and understand neuroimmunology - usecase examples and perspectives**  
Timo Uphaus: **BBB function and neuronal excitability in neuroinflammation and ischemic stroke**  
Clara de la Rosa del Val: **Essential cytokines driving macrophage phenotypes in neuroinflammation**  
Andreas Schulte Mecklenbeck: **Immune profiling matters - discrete cellular immune fingerprints indicate distinct disease trajectories in early MS**

**Session 5: Novel directions and technologies**

(15:40-17:20)

Chair: *Martin Kerschensteiner*

15:40-16:00	<a href="#">Alexandre Prat</a>	<b>Single cell RNA sequencing of human MS and ALS brain endothelial cell</b>
16:00-16:20	Tobias Bopp	<b>Metabolic Communication in the development and manifestation of autoimmunity</b>
16:20-16:40	Gerd Meyer zu Hörste	<b>Studying brain borders in neuroinflammation</b>
16:40-17:00	<a href="#">Jen Gommerman</a>	<b>B cell depletion therapies in MS – Exploring mechanisms of action</b>
17:00-17:20	<a href="#">Sergio Baranzini</a>	<b>Integrating “omics” with AI for precision medicine</b>

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**Tuesday, 30 April (Venue: castle of the Münster University, Aula, 1<sup>st</sup> floor)**

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**08:00-08:30** Welcome Coffee and Snacks (in the tent forecourt castle)

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**Session 6: Is there still a role for T cell immunology or should we prioritize B cells in understanding MS?**

*(08:30-09:50)*

*Chair: Sven Meuth*

08:30-08:50	Jan Lünemann	Functional signatures of encephalitogenic antibodies in CNS autoimmune disease
08:50-09:10	<a href="#">Fabienne Brilot</a>	Biomarkers of a relapsing course in MOG antibody –associated disease (MOGAD)
09:10-09:30	<a href="#">Daniela Latorre</a>	Autoreactive T cell immunity in human neurological disorders: novel insights from Guillain Barré Syndrome
09:30-09:50	Stefan Bittner	Balancing glutamate signaling in inflammatory neuronal injury

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*9:50-10:20* Coffee Break

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**Session 7: Learning pathogenesis from therapeutic intervention  
(10:20-12:00)**

*Chair: Aiden Haghikia*

10:20-10:40	Thomas Korn	A fresh look at B cells in autoimmunity
10:40-11:00	Ari Waisman	Inflammatory mediators affecting blood brain barrier function in autoimmunity
11:00-11:20	Luisa Klotz	Cellular immune fingerprints and their potential use in the evaluation of clinical prognosis and treatment decisions - fact or future?
11:20-11:40	Naoto Kawakami	Molecular mechanisms of autoreactive T cell infiltration to the CNS
11:40-12:00	Nicholas Schwab	What next-generation sequencing of treatment cohorts can teach us about pathology

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