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Coordination

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More information on the TRR 167





Invited speakers

funded by

Daniel Berchtold, Berlin, Germany Bart Eggen, Groningen, The Netherlands Daniel Erny, Freiburg, Germany Yuki Hattori, Nagoya, Japan Michael Heneka, Esch-Belval, Luxemburg Jürgen Knoblich, Vienna, Austria Takahiro Masuda, Fukuoka, Japan Doron Merkler, Geneva, Switzerland Anna Molofsky, San Francisco, USA Rosa Chiara Paolicelli, Lausanne, Switzerland Anne-Katrin Pröbstel, Basel, Switzerland Francisco Quintana, Boston, USA Serge Rivest, Québec, Canada Bart De Strooper, London, UK Simon Schäfer, Munich, Germany

Stand bei Drucklegung

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Meeting Venue



Historisches Kaufhaus Freiburg Münsterplatz 24, 79098 Freiburg

DFG – Collaborative Research Centre/ Transregio (CRC/TRR 167)

Development, function and potential of myeloid cells in the central nervous system



Invitation

2nd INTERNATIONAL Novo Nordisk - NeuroMac SYMPOSIUM on Neuroimmunology



September 16 - 17, 2024 Freiburg

Dear Colleagues and Friends,

It is our great pleasure to welcome you to our international symposium on neuroimmonology organized by our Collaborative Research Centre/ Transregio 167 (CRC/TRR 167) "Development, function and potential of myeloid cells in the central nervous system" and its NeuroMac School. The CRC/TRR 167 is funded by the German Research Foundation (DFG). The overall aim of the initiative was the coordinated investigation of the functional, spatial, temporal and developmental diversity of myeloid cells, including microglia, perivascular cells, meningeal macrophages and disease-associated blood-borne monocytes. There were major achievements within the funding period of this multidisciplinary research network such as 1. the identification of the microglia and CNS-associated macrophages precursors, in the yolk sac, 2. the generation of new genetic tools to target microglia, 3. the establishment of the tissue-specific single-cell signature of macrophages and some more. We hope that these discoveries will open new avenues in myeloid cell research in both basic and clinical science in the future.

Renowned speakers are going to cover these topics and connect molecular mechanisms with clinical observations and the development of novel treatment strategies.

We thank you for your participation and contribution and hope you will enjoy your stay in Freiburg.





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Marco Prinz

2nd International Novo Nordisk – NeuroMac Symposium on Neuroimmunology

PROGRAM

02.00 p.m.

02.40 p.m.

	6th 2024 / MONDAY	C
08.30 a.m.	Registration	JESSIC
-	0	Chairs:
OPENING & KEYNOTE 09.00 a.m. Welcome and Introduction		03.10 p
09.15 a.m.	Opening Keynote: The cellular phase of Alzheimer's disease Bart De Strooper, London, UK	03.50 p
10.00 a.m.	Coffee Break (30 min)	04.30 p
		05.00 p
Session 1: New TECHNOLOGIES IN NEUROSCIENCES Chairs: Olaf Groß, Martin Kerschensteiner		07.00 p
10.30 a.m.	Using cerebral organoids to model human-specific aspects of brain development Jürgen Knoblich, Vienna, Austria	PRO
11.10 a.m.	Building human stem cell-based models to study brain-microglia interactions in health and disease Simon Schäfer, Munich, Germany	SEPTE 09.00 2
11.30 a.m.	Astrocytes and Inflammatory Signaling Francisco Quintana, Boston, USA	Sessio
12.10 p.m.	Lunch Break (70 min)	Chairs:
		09.10 a
SESSION 2: D Chairs: Lukas A	EVELOPMENT OF MYELOID CELLS mann, Klaus-Peter Knobeloch	09.50 a
01.20 p.m.	Targeting CNS macrophages for genetic manipulation Takahiro Masuda, Fukuoka, Japan	

Spatiotemporal control of microglial

colonization in the developing brain

Yuki Hattori, Nagoya, Japan

Coffee Break (30 min)

ON 3: INTERACTION OF IMMUNE SESSION 5: DISEASE OF THE CNS II Chairs: Melanie Meyer-Lühmann, Shima Safaiyan AND NEURAL CELLS Robert Zeiser, Seija Lehnardt Neuroprotective properties of patrolling 11.00 a.m. monocytes via NOD2 signaling Cytokine regulation of CNS development .m. Serge Rivest, Québec, Canada Anna Molofsky, San Francisco, USA Crosstalk between myeloid cells, pericytes, 11.40 a.m. Microbiota-immune crosstalk in neuro-.m. B and T lymphocytes in chronic neuroininflammation flammation after stroke Anne-Katrin Pröbstel, Basel, Switzerland Daniel Berchtold, Berlin, Germany Postersession **.**m. 12.00 a.m. Lunch Break (60 min) End o.m. Speakers's Dinner (Speakers only)).m. **SESSION 6: MECHANISMS OF MYELOID CELL ACTIVATION** Chairs: Chotima Böttcher, Philipp Henneke Innate immune activation in Alzheimer's 01.00 p.m. GRAM disease Michael Heneka, Esch-Belval, Luxemburg MBER 17th, 2024 / TUESDAY **Unraveling long-term neuronal alterations** 01.40 p.m. Welcome and Posteraward a.m. following an immunological attack 02.20 p.m. ON 4: DISEASE OF THE CNS I Anne Kathrin Lößlein, Thomas Blank Human microglia diversity in development .m. and disease **Closing words** 02.40 p.m. Bart Eggen, Groningen, The Netherlands Early roles of microglia in the pathogenesis i.m. of neurodegeneration

Coffee Break (30 min) 10.30 a.m.

Switzerland

Rosa Chiara Paolicelli, Lausanne.

Doron Merkler, Geneva, Switzerland Microglial features are mouse strain-

dependent and divergently controlled by host microbiota Daniel Erny, Freiburg, Germany