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Coordination

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More information on the TRR 167

www.sfb-trr167.uni-freiburg.de/



funded by



Invited speakers

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 Pröbstl, 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

Speaker's Dinner

Hotel Oberkuchs Weinstube
Münsterplatz 22, 79098 Freiburg

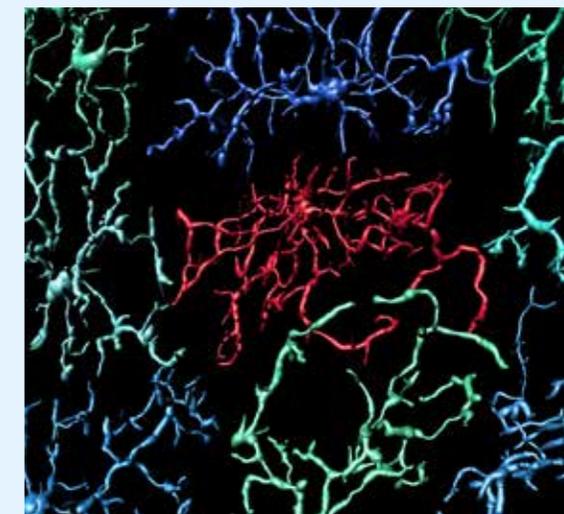
**DFG – Collaborative Research Centre/
Transregio (CRC/TRR 167)**

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,

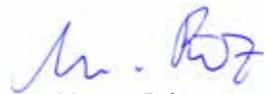
It is our great pleasure to welcome you to our international symposium on neuroimmunology organized by our Collaborative Research Centre/Transregio 167 (CRC/TRR 167) "Development, function and potential of myeloid cells in the central nervous system" and its NeuroMac School. The CRC/TRR 167 is funded 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.



Josef Priller



Marco Prinz



2nd International Novo Nordisk – NeuroMac Symposium on Neuroimmunology

PROGRAM

SEPTEMBER 16th, 2024 / MONDAY

08.30 a.m. Registration

OPENING & KEYNOTE

09.00 a.m. Welcome and Introduction

09.15 a.m. Opening Keynote: **The cellular phase of Alzheimer's disease**

Bart De Strooper, London, UK

10.00 a.m. Coffee Break (30 min)

SESSION 1: NEW TECHNOLOGIES IN NEUROSCIENCES

Chairs: Olaf Groß, Seija Lehnardt

10.30 a.m. **Using cerebral organoids to model human-specific aspects of brain development**
Jürgen Knoblich, Vienna, Austria

11.10 a.m. **Building human stem cell-based models to study brain-microglia interactions in health and disease**

Simon Schäfer, Munich, Germany

11.30 a.m. **Astrocytes and Inflammatory Signaling**

Francisco Quintana, Boston, USA

12.10 p.m. Lunch Break (70 min)

SESSION 2: DEVELOPMENT OF MYELOID CELLS

Chairs: Lukas Amann, Klaus-Peter Knobloch

01.20 p.m. **Targeting CNS macrophages for genetic manipulation**

Takahiro Masuda, Fukuoka, Japan

02.00 p.m. **Spatiotemporal control of microglial colonization in the developing brain**

Yuki Hattori, Nagoya, Japan

02.40 p.m. Coffee Break (30 min)

SESSION 3: INTERACTION OF IMMUNE AND NEURAL CELLS

Chairs: Robert Zeiser, Seija Lehnardt

03.10 p.m. **Cytokine regulation of CNS development**
Anna Molofsky, San Francisco, USA

03.50 p.m. **Microbiota-immune crosstalk in neuroinflammation**

Anne-Katrin Pröbstl, Basel, Switzerland

04.30 p.m. Postersession

05.00 p.m. End

07.00 p.m. Speaker's Dinner

PROGRAM

SEPTEMBER 17th, 2024 / TUESDAY

09.00 a.m. Welcome and Posteraward

SESSION 4: DISEASE OF THE CNS I

Chairs: Josef Priller, Thomas Blank

09.10 a.m. **Human microglia diversity in development and disease**

Bart Eggen, Groningen, The Netherlands

09.50 a.m. tba
Rosa Chiara Paolicelli, Geneva, Switzerland

10.30 a.m. Coffee Break (30 min)

SESSION 5: DISEASE OF THE CNS II

Chairs: Andreas Meisel, Shima Safaiyan

11.00 a.m. tba
Serge Rivest, Québec, Canada

11.40 a.m. **Crosstalk between myeloid cells, pericytes, B and T lymphocytes in chronic neuroinflammation after stroke**

Daniel Berchtold, Berlin, Germany

12.00 a.m. Lunch Break (60 min)

SESSION 6: MECHANISMS OF MYELOID CELL ACTIVATION

Chairs: Chotima Böttcher, Philipp Henneke

01.00 p.m. tba
Michael Henneke, Esch-Belval, Luxemburg

01.40 p.m. tba
Doron Merkler, Geneva, Switzerland

02.20 p.m. **Microglial features are mouse strain-dependent and divergently controlled by host microbiota**

Daniel Erny, Freiburg, Germany

02.40 p.m. Closing words