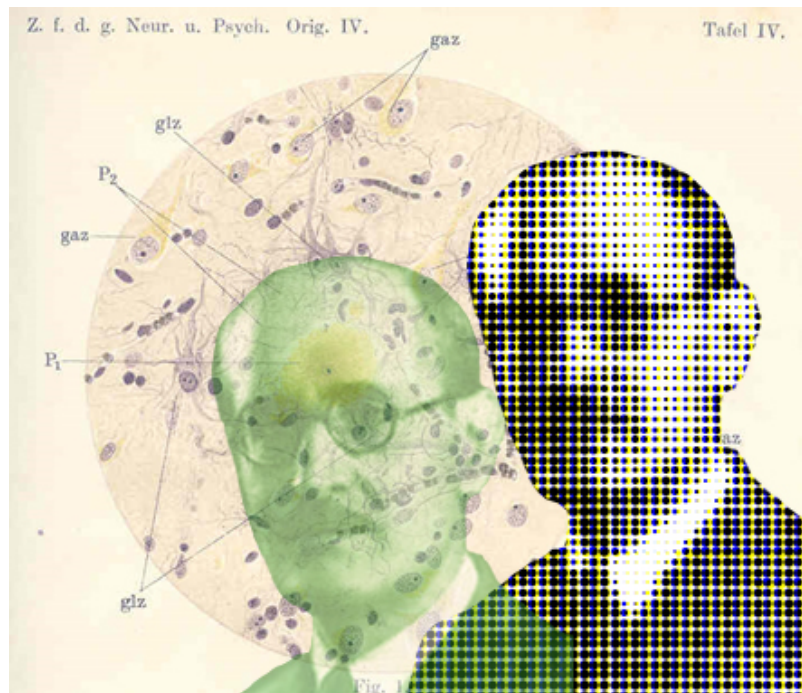


Symposium

New Developments in Microglial Research



September 20 – 21, 2018
Munich, Germany

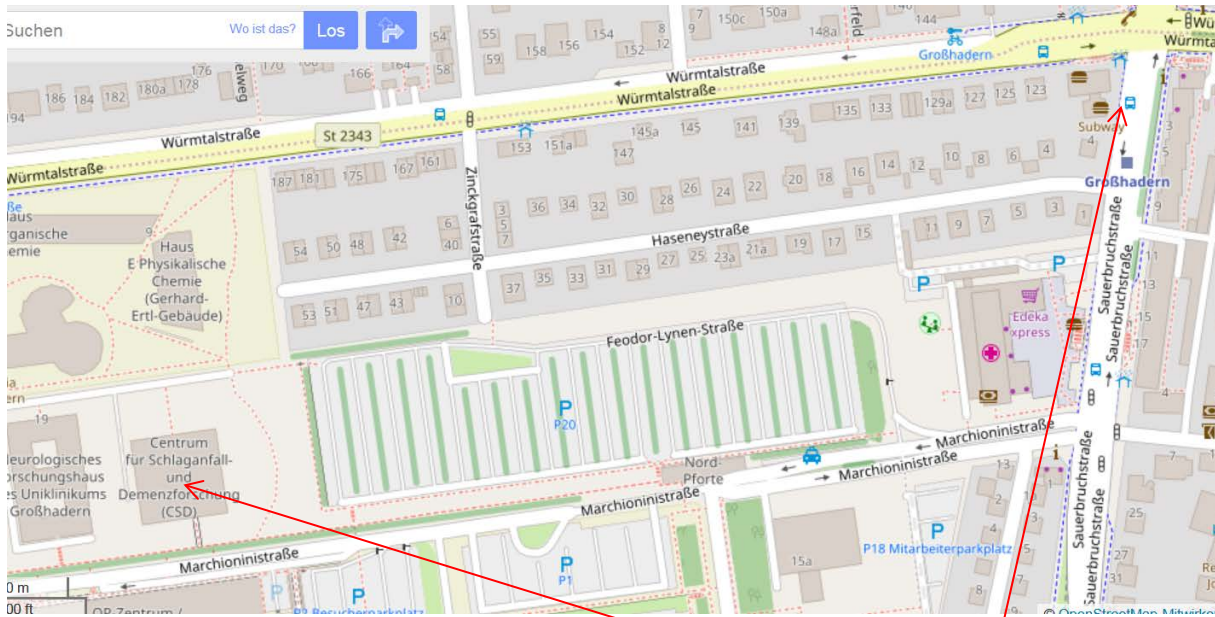
Scientific Program

Organized by

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Munich Cluster for
Systems Neurology

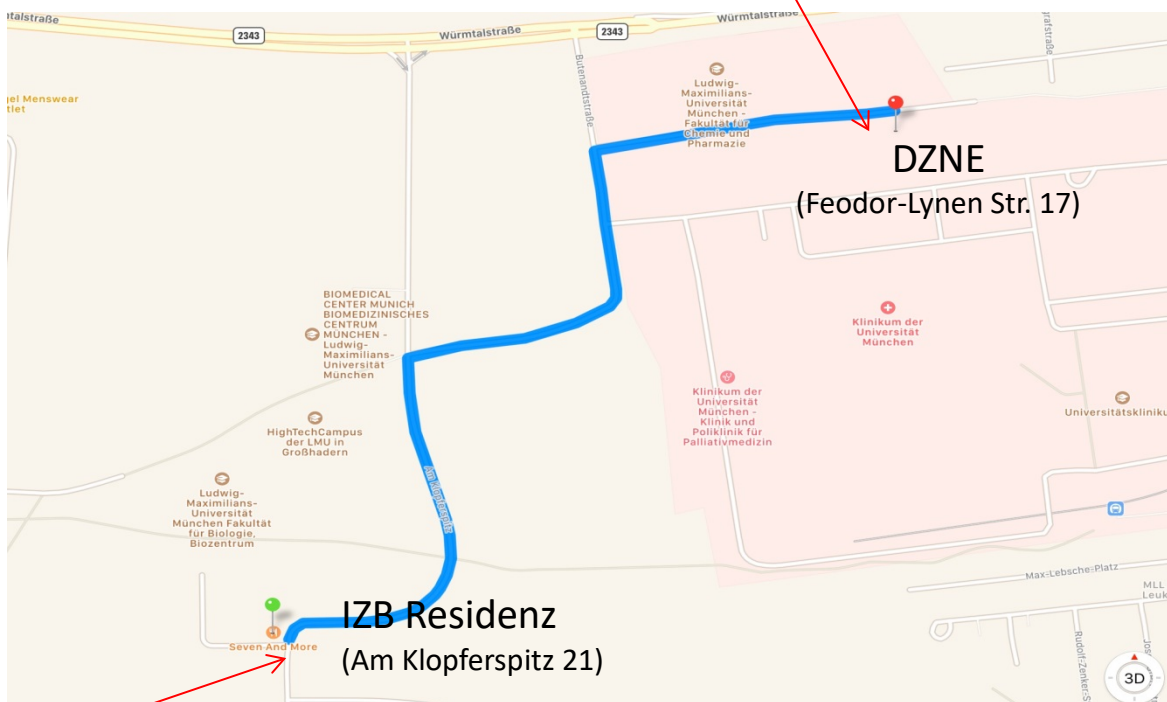
Venue



Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE)
Feodor-Lynen Straße 17, 81377 München, Germany

U-Bahn Station Großhadern

Speakers' Residence



IZB Residence Campus at Home (Walking Distance: 10 minutes)
Am Klopferspitz 19, 82152 Planegg/Martinsried, Germany

Scientific Organizers

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General Information

Size of the posters: 117 cm height, 87 cm width (approx. A0 format)

Registration starts at 1 pm.

Venue:

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Speakers' Accommodation

IZB Residence Campus at Home
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Speakers Dinner

20.09.18 7 pm
Restaurant Seven and More (in IZB Residence Campus at Home)

Schedule

Thursday, September 20, 2018

14:00 14:05	Welcome Christian Haass (München), Helmut Kettenmann (Berlin)
14:05 – 15:45	Session I Chair: Christian Haass (München)
14:05 – 14:25	Alexander Mildner (Forschungsschwerpunkt Krebsforschung/ Forschungsgruppe Zelldifferenzierung und Tumorigenese, MDC Berlin) <i>Insights into the maintenance and dynamics of microglia</i>
14:25 – 14:45	Michael Sieweke (Max Delbrück Center for Molecular Medicine, MDC Berlin) <i>Self-renewal and maturation of microglia</i>
14:45 – 15:05	Olga Garaschuk (Institute of Physiology, Hertie-Institut für klinische Hirnforschung, Tübingen) <i>Understanding the role of in vivo Ca²⁺ signals in microglia</i>
15:05 – 15:25	Martin Korte (Zoologisches Institut, TU Braunschweig) <i>Long-term effects of immunostimulation on synaptic plasticity and microglia activations</i>
15:25 – 15:45	Susanne Wolf (Ophthalmologie, Charité-Universitätsmedizin Berlin Campus Virchow Klinikum) <i>Sex dependent differences in microglia structure and function</i>
15:45 – 16:45	Poster Session and Coffee Break
16:45 -18:25	Session II Chair: Olga Garaschuk (Tübingen)
16:45 – 17:05	Jonas Neher (Zellbiologie Neurologischer Erkrankungen, Hirnforschung, Tübingen) <i>Epigenetic microglial reprogramming alters neurological disease</i>
17:05 – 17:25	Ari Waismann (Institut für Molekulare Medizin Mainz, Mainz) <i>The role of microglia in CNS inflammation</i>
17:25 – 17:45	Mikael Simons (Deutsches Zentrum für Neurodegenerative Erkrankungen, München) <i>Functions of microglia in remyelination</i>
17:45 – 18:05	Matthias Endres (Klinik und Poliklinik für Neurologie, Charité - Universitätsmedizin Berlin, Campus Mitte, Berlin) <i>Microglia and stroke</i>

18:05 – 18:25	David Gutmann (Washington University School of Medicine, St. Louis, USA) <i>Cancer predisposition syndrome mutation reveals sexually dimorphic phenotypes in microglia relevant to brain tumor formation and progression</i>
19:00	Speakers Dinner (Restaurant Seven and More, Campus Hotel)

Friday, September 21, 2018

9:00 – 11:00	Session III Chair: Mikael Simons (München)
9:00 – 9:20	Frank Heppner (Institut für Neuropathologie, Charité - Universitätsmedizin Berlin, Berlin) <i>Microglial actions and phenotypes in neurodegeneration</i>
9:20 – 9:40	Christian Haass (Biomedizinisches Zentrum (BMC) & Deutsches Zentrum für Neurodegenerative Erkrankungen, München) <i>TREM2 dependent amyloidogenesis</i>
9:40 – 10:00	Samira Parhizkar (Biomedizinisches Zentrum (BMC) & Deutsches Zentrum für Neurodegenerative Erkrankungen, München) <i>Loss of TREM2 function increases amyloid seeding but reduces plaque associated ApoE</i>
10:00 – 10:20	Ingo Bechmann (Institute of Anatomy, Universität Leipzig, Leipzig) <i>Microglial aging</i>
10:20 – 10:40	Helmut Kettenmann (Zelluläre Neurowissenschaften, Max-Delbrück Centrum für Molekulare Medizin, Berlin) <i>Features of microglial activation</i>
10:40 – 11:30	Poster Session and Coffee Break
11:30 - 13:30	Session IV Chair: Jonas Neher (Tübingen)
11:30 – 11:50	Björn Spittau (Molecular Embryology, Universität Freiburg, Freiburg) <i>TGF-beta-mediated regulation of microglia activation and maturation</i>
11:50 – 12:10	Knut Biber (AbbVie Deutschland GmbH & Co. KG, Ludwigshafen) <i>The role of microglia in stress-induced depressive-like behavior</i>
12:10 – 12:30	Nadja Freund / Georg Juckel (Westfälisches Zentrum für Psychiatrie, Psychotherapie und Psychosomatik, Klinik der Ruhr-Universität Bochum, Bochum) <i>Microglia activation in the PolyI:C model of schizophrenia</i>

12:30 – 12:50	Josef Priller (Abteilung für Neuropsychiatrie, Charité - Universitätsmedizin Berlin, Berlin) <i>Heterogeneity of CNS myeloid cells and their roles in neuropsychiatric diseases</i>
12:50 – 13:10	Thomas Langmann (Experimentelle Immunologie des Auges, Uniklinik Köln, Köln) <i>Therapeutic modulation of microglia controls vision loss</i>
13:10 – 14:30	Lunch / Strategic Discussion (Speakers only)

Poster Presentations

1. **Poster Title: “A FACS-based assessment of synaptic material in microglia during brain development and disease”**

Presenting Author: Brioschi, Simone (Department of Psychiatry and Psychotherapy, University of Freiburg Medical Center)

Contact: Simone.brioschi@uniklinik-freiburg.de

2. **Poster Title: “The role of the let-7 microRNAs as activators of microglia.”**

Presenting Author: Buonfiglioli, Alice (Max Delbrück Center for Molecular Medicine (MDC), Cellular Neurosciences, Berlin)

Contact: alice.buonfiglioli@mdc-berlin.de

3. **Poster Title: “Investigating the role of microglia and macrophages expressing the muscarinic receptor 3 during brain ischemic injury”**

Presenting Author: de Andrede Costa, Amanda Luise (Max Delbrück Center for Molecular Medicine (MDC), Cellular Neurosciences, Berlin)

Contact: Amanda.Costa@mdc-berlin.de

4. **Poster Title: “The functional role of C/EBP β in microglia homeostasis and disease”**

Presenting Author: Dörr, Dorothea (Max Delbrück Center for Molecular Medicine (MDC), Forschungsgruppe Zelldifferenzierung und Tumorigenese, Berlin)

Contact: Dorothea.Doerr@mdc-berlin.de

5. **Poster Title: “New approaches for in vivo functional imaging of microglia”**

Presenting Author: Figarella, Katherine (Institute of Physiology, University of Tübingen)

Contact: katherine.figarella@uni-tuebingen.de

6. **Poster Title: “Altered microglial phenotype in Neuroligin-4 deficient mice as a model of Autism Spectrum Disorder”.**

Presenting Author: Güneykaya, Dilansu (Max Delbrück Center for Molecular Medicine (MDC), Cellular Neurosciences, Berlin)

Contact: dilansu.gueneykaya@mdc-berlin.de

7. **Poster Title: “Tenascin C as a novel regulator of microglia function”**

Presenting Author: Haage, Verena (Max Delbrück Center for Molecular Medicine (MDC), Cellular Neurosciences, Berlin)

Contact: Verena.Haage@mdc-berlin.de

8. **Poster Title: “The role of MafB in Microglia maintenance”**

Presenting Author: Huang, Hao (Max Delbrück Center for Molecular Medicine (MDC), AG Sieweke Center for Regenerative Therapies Dresden (CRTD), AG Sieweke Centre d’Immunologie de Marseille-Luminy (CIML), Sieweke Lab)

Contact: huang@ciml.univ-mrs.fr

Poster Presentations

9. Poster Title: “Beclin1-driven autophagy modulates the inflammatory response of microglia via NLRP3”

Presenting Author: Houtman, Judith (Charité - Universitätsmedizin Berlin, Institut für Neuropathologie, Berlin)

Contact: judith.houtman@charite.de

10. Poster Title: “Quantification of microglial phenotypes using machine learning”

Presenting Author: Leyh, Judith (University Leipzig, Institute of Anatomy, Leipzig)

Contact: Judith.Leyh@medizin.uni-leipzig.de

11. Poster Title: “Loss of IBA-1 expression in brains from individuals with obesity and hepatic dysfunction”

Presenting Author: Lier, Julia (University Leipzig, Institute of Anatomy, Leipzig)

Contact: julia.lier@medizin.uni-leipzig.de

12. Poster Title: “IL-37 reduces neuroinflammation after immune stimulation”

Presenting Author: Lonnemann, Niklas (TU Braunschweig, Zoologisches Institut, Braunschweig)

Contact: n.lonnemann@tu-bs.de

13. Poster Title: “ Microglial A20 is a gatekeeper of CNS homeostasis”

Presenting Author: Mohebiany, Alma (Institut für Molekulare Medizin Mainz, AG Waisman, Mainz)

Contact: amohebia@uni-mainz.de

14. Poster Title: “Cellular targets and downstream effector mechanisms of IL-12/IL-23 signalling in Alzheimer’s disease”

Presenting Author: Pascale, Eede (Charité - Universitätsmedizin Berlin, Institut für Neuropathologie, Berlin)

Contact: pascale.eede@charite.de

15. Poster Title: “Distinguishing features of microglia- and monocyte-derived macrophages after stroke”

Presenting Author: Uhlemann, Ria (Charité - Universitätsmedizin Berlin, Campus Mitte, Klinik und Poliklinik für Neurologie, Berlin)

Contact: Ria.Uhlemann@charite.de

16. Poster Title: “Microglial immune memory alters neurological disease hallmarks”

Presenting Author: Wendeln, Ann-Christin (Hertie-Institut für klinische Hirnforschung, Zellbiologie Neurologischer Erkrankungen, Tübingen)

Contact: ann-christin.wendeln@uni-tuebingen.de

17. Poster Title: “Targeting translocator protein 18 kDa (TSPO) in microglia prevents retinal degeneration”

Presenting Author: Wolf, Anne (Uniklinik Köln, Experimentelle Immunologie des Auges, Köln)

Contact: anne.wolf@uk-koeln.de

18. Poster Title: “Opposite microglial activation stages upon loss of TREM2 and PGRN”

Presenting Author: Reifschneider, Anika (Biomedical Center (BMC), Biochemistry, Ludwig-Maximilians-University Munich)

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