









# The 21st Eibsee Meeting (December 6-8, 2023)

## **CELLULAR MECHANISMS OF NEURODEGENERATION**

organized and funded by the

DZNE, German Center for Neurodegenerative Diseases - Munich

SyNergy - Munich Cluster for Systems Neurology

The Hans und Ilse Breuer Foundation

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## organizer

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#### Location



#### **Travelling**

by train: Take the train to Garmisch (via Munich). In Garmisch please take a taxi to the hotel (about 15-20 min drive).

**by plane**: From Munich airport take the S-Bahn to Munich Central station (Hauptbahnhof Hbf). At the central station take the train to Garmisch (about 1h 50 min); from here take a taxi to the hotel.

by car: From Munich take the highway to Garmisch. In Garmisch follow the signs to Eibsee. The hotel is at the end of the road right at the foot of the Zugspitze. It takes approx. 1h 20 min.

#### Weather

It is winter and for those who like to go on a walk, please bring your hiking boots with you.

#### **Acknowledgements**

We greatly appreciate funding of the Eibsee Meeting by the Hans and Ilse Breuer Foundation, the German Center for Neurodegenerative Diseases (DZNE) and SyNergy - Munich Cluster for Systems Neurology









# **PROGRAM**

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#### Wednesday, December 6

12:00	The traditional "scientific walk" around the lake (if weather permits, we meet in the lobby)								
15:00	Welcome Christian Haass, DZNE and LMU Munich, Germany								
15:10 – 15:50 Keynote Lecture I Chair: Christian Haass									
	Michael Ward, The National Institutes of Health (NIH), Bethesda, USA Mining iPSCs for mechanisms of neurodegenerative diseases								
15:50 – 17:40 Topic I - Biomarker Chair: Anna-Sophia Wahl-Ommer									
15:50 – 16:10	Henrik Zetterberg, University of Gothenburg, Sweden Update on biofluid-based biomarkers for neurodegenerative dementias								
16:10 – 16:40 Coffee Break									
16:40 – 17:00	Eric McDade, Washington University, St. Louis, USA CSF biomarkers of proteostasis in ADAD								
17:00 – 17:20	Nicolai Franzmeier, Institute for Stroke and Dementia Research, Munich, Germany Understanding mechanisms of tau propagation and spread in neurodegenerative diseases using neuroimaging								
17:20 – 17:40	Mathias Jucker, University of Tübingen, Germany Brain $\mbox{\sc Brain}$ deposition and biomarkers of neurodegeneration								
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#### 17:40 – 18:20 Young Investigator Keynote Lecture I

Chair: Regina Feederle

Xianyuan Xiang, Chinese Academy of Sciences, Shenzhen, China Linking normal microglial functions to brain diseases

18:30 Cocktails

19:00 Dinner

#### Thursday, December 7

9:00 – 9:40 Young investigator Keynote Lecture II

Chair: Arthur Liesz

Andrew Yang, University of California UCSF, San Francisco, USA Decoding communication across the blood-brain barrier

9:40 – 12:10 Chair: Thomas	Topic II - Systems Neurology (SyNergy Scientists)  Misgeld									
9:40 – 10:00	Jovica Ninkovic, Helmholtz Munich, Germany Role of Neuroinflammation in Brain Regeneration									
10:00 - 10:20	Ilgin Kolabas, Helmholtz Munich, Germany Distinct molecular profiles of skull bone marrow in health and neurological disorders									
10:20 – 10:50 Coffee Break										
10:50 - 11:10	Kenneth Dyar, Helmholtz Munich, Germany Novel arginine and lysine glycation free adducts are biomarkers for PARK7-related early-onset familial Parkinson's disease									
11:10 – 11:30	Angelika Harbauer, Max Planck Institute for Biological Intelligence, Martinsried, Germany Mitochondrial Health Maintenance in Neurons									
11:30 – 11:50	Silvia Cappello, LMU Munich, Germany Cellular Crosstalk in Neurodevelopmental Disorders									
11:50 – 12:10	Josef Priller, Technical University of Munich (MRI), Germany Neuronal and glial responses to the absence of microglia									
Flash talks I (se Chair: Sarah Jäl	elected poster presentations) kel									
12:10 – 12:25	Five two-minute talks with one slide									
	12:30 – 13:30 Lunch									
	13:30 – 15:00 Time for a recreation									
<b>15:00 – 15:40</b> Chair: Martin D	Keynote Lecture II  Dichgans									
	Gilbert Di Paolo, Denali Therapeutics Inc., South San Francisco, USA Lysosomal functions of progranulin and therapeutic approaches for GRN-associated frontotemporal dementia									
<b>15:40 – 17:30</b> <i>Chair: Johannes</i>	Topic III - Treatment strategies s Levin									
15:40 – 16:00	Takeshi Iwatsubo, University of Tokyo, Japan Alzheimer's disease: from molecular pathology to disease-modifying therapy targeting Abeta									
16:00 – 16:20	Kai Schlepckow, DZNE Munich, Germany									

16:20 – 16:50 Coffee Break

16:50 – 17:10 Neil Shneider, Columbia University, New York, USA Silencing FUS and other rare genetic forms of ALS
 17:10 – 17:30 Philip Scheltens, Amsterdam UMC University Medical Centers

Therapeutic modulation of TREM2

17:30 Philip Scheltens, Amsterdam UMC University Medical Centers, Netherlands Treatments for Alzheimer's: beyond amyloid

#### Flash talks II (selected poster presentations)

Chair: Angelika Harbauer

17:30 – 17:45 Five two-minute talks with one slide

#### 18:00 Dinner

#### 19:30 Poster session (with free drinks)

#### Friday, December 8

9:00 - 9:40	Keynote Lecture III
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Chair: Lena Burbulla

Benjamin Ryskeldi-Falcon, MRC Laboratory of Molecular Biology, Cambridge, UK Structures of TDP-43 amyloid filaments in human neurodegenerative disease

#### 9:40 – 11:40 Topic IV - Mechanisms and model systems

Chair: Florence Bareyre

9:40 – 10:00	Christian Madry, Charité - Universitätsmedizin Berlin, Germany
	Role of Kir2.1 K+ channels for TREM2 signaling in microglia in Alzheimer's disease

10:00 – 10:20 Julia TCW, Boston University, USA

Deciphering functional mechanisms of Alzheimer's disease genetic risk using iPSC models

#### 10:20 - 10:40 Coffee Break

10:40 - 11:00	Patri	k Verstrek	en,	VIB	Cei	nter	for	Brain 8	k Disease	Research,	Leuven,	Belgium
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Targeting synaptic decline in neurodegeneration

# 11:00 – 11:20 Marco Prinz, Universitätsklinikum Freiburg, Germany

The myeloid side of the brain

11:20 – 11:40 Tracy Young-Pearse, Brigham and Women's Hospital and Harvard Medical School, Boston, USA Microglial function, phosphoinositide signaling and inflammasome activation: Implications for

Alzheimer's disease

12:00 - 14:00 Lunch

14:00 Departure

19:00 Dinner for participants staying until Saturday, December 9