

20

THE TWENTIETH EIBSEE MEETING

CELLULAR MECHANISMS OF NEURODEGENERATION

OCTOBER 26–28, 2022

Keynote speakers

- M. Götz (Helmholtz Zentrum, Munich)
- U. Hartl (Max Planck Institute of Biochemistry, Munich)
- B. Stevens (Harvard Medical School, Boston)

International speakers

- M. Citron (UCB Biopharma, Brussels)
- Ph. De Jager (Columbia University Irving Medical Centre, New York)
- A. Goate (Icahn School of Medicine at Mount Sinai, New York)
- D. Holtzman (Washington University, St. Louis)
- C. Iadecola (Weill Cornell Medicine, New York)
- M. Kampmann (University of California, San Francisco)
- K. Monroe (Denali Therapeutics, San Francisco)
- A. Schaefer (Icahn School of Medicine at Mount Sinai, New York)
- D. Selkoe (Harvard Medical School, Boston)
- P. St. George-Hyslop (University of Toronto)

Farewell speaker

- K. Beyreuther (University of Heidelberg)

National speakers

- L. Burbulla, S. Jäkel, E-M. Mandelkow,
E. Mandelkow, J. Neher, D. Paquet, J. Schultze

Organized by

- C. Haass (DZNE & University of Munich)

The 20th Eibsee Meeting
(October 26-28, 2022)

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

organizer

Christian Haass

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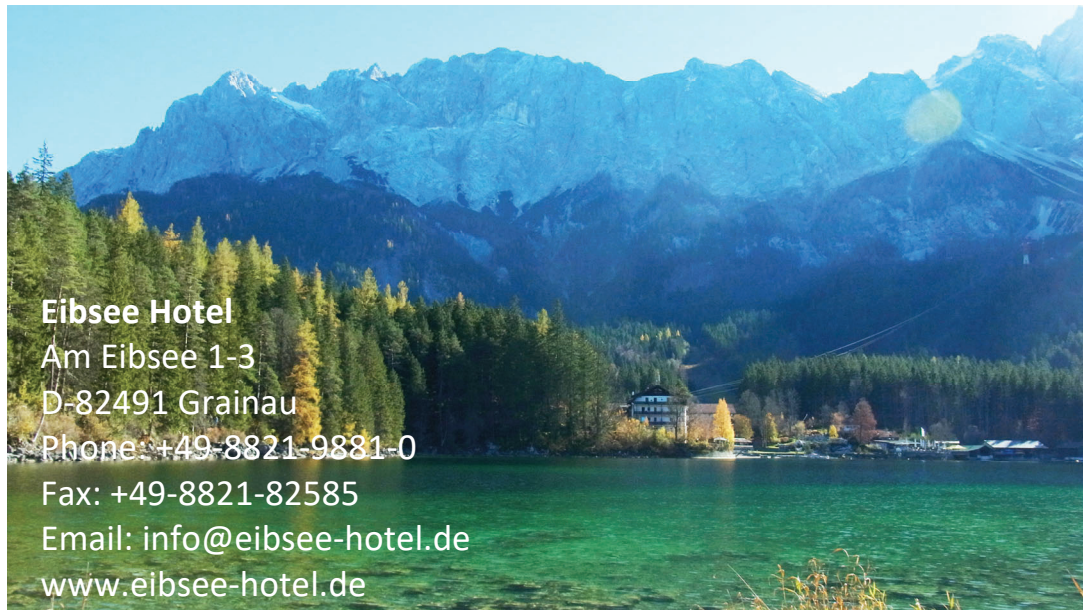
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Location



Important info about Covid-19 rules

For participants we have to follow strict regulations regarding Covid-19:
Proof of a complete corona vaccination
(Vaccination pass or digital) is obligatory

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 1h50min); 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. 1h20min.

Weather

It is fall and it might be cold already. 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

Wednesday, October 26

12:00 The traditional “scientific walk” around the lake (if weather permits; we meet in the lobby)

15:00 **Welcome: 20 years of Eibsee Meeting**
Christian Haass, DZNE and University of Munich, Germany

15:10 – 15:50 **Keynote Lecture I**
Chair: Christian Haass

Beth Stevens, Harvard Medical School, Boston, USA
How Microglia Eliminate Specific Synapses in Health & Disease: New biological insight and clinical translation

15:50 – 17:30 **Topic I - 20 years of Eibsee Meeting – special guests**
Chair: Jörg Schulz

15:50 – 16:10 Dennis Selkoe, Harvard Medical School, Boston, USA
Mechanistic and diagnostic advances in the era of anti-amyloid therapeutics

16:10 – 16:30 Peter St. George-Hyslop, University of Toronto, Canada
Interactions between the intrinsically disordered world of membraneless biomolecular condensate-based organelles and the ordered world of membrane-bound organelles

16:30 – 16:50 Martin Citron, UCB Biopharma, Brussels, Belgium
From mechanistic hypothesis to drug development in neurodegeneration

16:50 – 17:10 Eva-Maria & Eckhard Mandelkow, DZNE Bonn, Germany
Tau

17:10 – 17:30 Katja Bär, Hans & Ilse Breuer Foundation, Frankfurt am Main, Germany
Presentation of the Best Paper Award

18:30 Reception with “Bavarian Beer & Music” at the terrace of the “See Pavillon”

19:00 Eibsee 20th anniversary dinner

Special guest “The Amyloid Man”

Thursday, October 27

9:00 – 9:40 **Keynote Lecture II**
Chair: Sabine Liebscher

Magdalena Götz, HelmholtzZentrum Munich, Germany
Mechanisms of neurogenesis and neuronal replacement

9:40 – 11:20 **Topic II - Non-neuronal contributions in neurodegeneration**
Chair: Martin Kerschensteiner

9:40 – 10:00 Sarah Jäkel, Institute for Stroke and Dementia Research, Munich, Germany
Oligodendrocyte heterogeneity and neurodegeneration: is there a link?

10:00 – 10:40 Coffee Break

- 10:40 – 11:00 Lena Burbulla, University of Munich, Germany
The role of dopamine oxidation in the preferential degeneration of midbrain neurons in neurodegenerative diseases
- 11:00 – 11:20 Philip De Jager, Columbia University Irving Medical Centre, New York, USA
Resolving changes in inter-cellular communication within cortical cellular communities that are perturbed in relation to Alzheimer pathology and impaired cognition

Flash talks I (selected poster presentations)

Chair: Christian Haass

- 11:30 – 11:40 Five two-minute talks with one slide

12:00 – 13:30 Lunch

13:30 – 15:00 Time for a recreation

15:00 – 17:00 Topic II - Non-neuronal contributions in neurodegeneration (continued)

Chair: Thomas Misgeld

- 15:00 – 15:20 Martin Kampmann, University of California, San Francisco, USA
CRISPR-based functional genomics for neurodegenerative disease
- 15:20 – 15:40 Costantino Iadecola, Weill Cornell Medicine, New York, USA
Neurovascular dysfunction in neurodegeneration: innate immunity takes center stage

15:40 – 16:20 Coffee Break

- 16:20 – 16:40 Alison Goate, Icahn School of Medicine at Mount Sinai, New York, USA
Human Genetics implicate efferocytosis in myeloid cells as a disease risk hub
- 16:40 – 17:00 Joachim Schultze, DZNE Bonn, Germany
Deciphering neurodegeneration, cell by cell

Flash talks II (selected poster presentations)

Chair: Christian Haass

- 17:10 – 17:20 Five two-minute talks with one slide

18:30 Dinner

19:30 Poster session (with free drinks)

Friday, October 28

9:00 – 9:40 Keynote Lecture III

Chair: Dorothee Dormann

Ulrich Hartl, Max-Planck-Institute of Biochemistry, Munich, Germany
Molecular chaperones in protein folding and aggregation prevention

9:40 – 11:40 Topic III - Microglia

Chair: Martin Dichgans

9:40 – 10:00 Anne Schaefer, Icahn School of Medicine at Mount Sinai, New York, USA
Negative feedback control of neuronal activity by microglia

10:00 – 10:20 Kathryn Monroe, Denali Therapeutics Inc., South San Francisco, USA
Human genetics indicate novel therapeutic approaches for modulating microglia activity for Alzheimer's Disease

10:20 – 10:40 Coffee Break

10:40 – 11:00 Jonas Neher, DZNE Tuebingen, Germany
Medin amyloid promotes vascular A β deposition in Alzheimer's disease

11:00 – 11:20 Dominik Paquet, Institute for Stroke and Dementia Research, Munich, Germany
iPSC-derived and CRISPR-edited 3D human brain tissue models to investigate neurodegenerative and neurovascular disorders

11:20 – 11:40 David Holtzman, Washington University, St. Louis, USA
Isoform and cell specific effects of APOE on amyloid- β and on tau-mediated neurodegeneration

11:40 – 12:00 Farewell lecture

Chair: Christian Haass

Konrad Beyreuther, University of Heidelberg, Germany
Looking back, and ahead

12:00 – 14:00 Lunch

14:00 Departure

19:00 Dinner

for participants staying until Saturday, October 29