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. Schulte

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

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organizer

Christian Haass
DZNE, German Center for Neurodegenerative Diseases - Munich,
Ludwig-Maximilians-University Munich and
SyNergy - Munich Cluster for Systems Neurology
Feodor-Lynen-Str. 17, 81377 Munich
Germany

Phone: +49-89-4400-46549
Fax: +49-89-4400-46546
e-mail: christian.haass@mail03.med.uni-muenchen.de
http://eibsee.web.med.uni-muenchen.de/index.html
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
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PROGRAM

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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
Oligendrocyte 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 Schultzze, 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 Aβ 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