

20

THE TWENTIETH EIBSEE MEETING

CELLULAR MECHANISMS OF NEURODEGENERATION

March 23 - 25, 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)
M. Reinhard (NOMIS Foundation, Zurich)
A. Schaefer (Icahn School of Medicine at Mount Sinai, New York)
D. Selkoe (Harvard Medical School, Boston)
P. St. George-Hyslop (University of Toronto)
R. Tanzi (Harvard Medical School, Boston)

Farewell speaker

K. Beyreuther (University of Heidelberg)

National speakers

K. Bär, 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
(March 23-25, 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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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). At the central station take the train to Garmisch (about 1 hr); from here take a taxi to the hotel.

by car: From Munich take the highway (A95) to Garmisch. In Garmisch follow the signs to Grainau/Eibsee. The hotel is at the end of the road right at the foot of the Zugspitze.

Weather

Even though it is spring, it might still get cold. For those who like to go on a walk: please bring your hiking boots.

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, March 23

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
To be determined

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 (preliminary title)

16:10 – 16:30 Peter St. George-Hyslop, University of Toronto, Canada
To be determined

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

16:50 – 17:10 Rudolph Tanzi, Harvard Medical School, Boston, USA
Role of innate immunity in Alzheimer Disease

17:10 – 17:30 Eva-Maria & Eckhard Mandelkow, DZNE Bonn, Germany
To be determined (preliminary title)

17:30 Reception with “Bavarian Beer & Music” at the terrace of the sea pavilion

19:00 Eibsee 20 anniversary dinner

Special guest “The Amyloid Man”

Presentation of the

Best Paper Award by the Hans & Ilse Breuer Foundation

Thursday, March 24

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

Magdalena Götz, Helmholtz Zentrum 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 Joachim Schultze, DZNE Bonn, Germany
Deciphering neurodegeneration, cell by cell (preliminary title)

11:00 – 11:20 Kathryn Monroe, Denali Therapeutics Inc., South San Francisco, USA
TBD (preliminary title)

Presentation of the Hans and Ilse Breuer Foundation

11:20 – 11:30 Katja Bär, Hans and Ilse Breuer Foundation, Frankfurt am Main, Germany

Flash talks I (selected poster presentations)

Chair: Christian Haass

11:30 – 11:40 Five two minutes 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 (preliminary title)

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 (preliminary title)

16:40 – 17:00 Lena Burbulla, University of Munich, Germany
The role of dopamine oxidation in the preferential degeneration of midbrain neurons in neurodegenerative diseases (preliminary title)

Presentation of the NOMIS Foundation

17:00 – 17:10 Markus Reinhard, NOMIS Foundation, Zurich, Switzerland

Flash talks II (selected poster presentations)

Chair: Christian Haass

17:10 – 17:20 Five two minutes talks with one slide

18:00 Dinner

19:30 Poster session (with free drinks)

Friday, March 25

9:00 – 9:40 **Keynote Lecture III**

Chair: Pierluigi Nicotera

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 Jonas Neher, DZNE Tuebingen, Germany
The role of median amyloid in age-associated cerebrovascular dysfunction and Alzheimer's disease
(preliminary title)

10:20 – 10:40 Coffee Break

10:40 – 11:00 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

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 tau-mediated neurodegeneration (preliminary title)

11:40 – 12:00 **Farewell lecture**

Chair: Christian Haass

Konrad Beyreuther, University of Heidelberg, Germany
To be determined

12:00 – 14:00 Lunch

14:00 Departure