

18

THE EIGHTEENTH EIBSEE MEETING ON

CELLULAR MECHANISMS OF NEURODEGENERATION

October 24-26, 2018

key note speaker

A. Hyman (MPI of Molecular Cell Biology and Genetics, Dresden)

international speakers

M. Colonna (Washington University, St. Louis)

L. Foo (Roche Innovation Center, Basel)

R. Hejtz (Karolinska Institutet, Stockholm)

D. Holtzman (Washington University, St. Louis)

D. Kerschensteiner (Washington University, St. Louis)

M. Matteoli (Humanitas University, Milan)

J. Morris (Washington University, St. Louis)

J. Shorter (University of Pennsylvania, Philadelphia)

S. Sisodia (The University of Chicago)

P. St. George-Hyslop (University of Toronto)

organized by

C. Haass (DZNE & University of Munich)

national speakers

D. Dormann, A. Ertürk, A. Fischer, C. Haass,
M. Heneka, P. Heutink, M. Kerschensteiner,
A. Liesz, A. Ludolph, T. Misgeld, M. Simons,
M. Zweckstetter

Hans und Ilse
**Breuer
Stiftung**
ALZHEIMER
FORSCHUNG UND HILFE



DZNE
Deutsches Zentrum für
Neurodegenerative Erkrankungen
in der Helmholtz-Gemeinschaft

SyNerg
Munich Cluster for
Systems Neurology

Deutsche
Forschungsgemeinschaft

DFG

**The 18th Eibsee Meeting
(October 24-26, 2018)**

**CELLULAR MECHANISMS OF
NEURODEGENERATION**

funded by the

**DZNE, German Center of Neurodegenerative Diseases -
Munich**

The Hans und Ilse Breuer Foundation

SyNergy, Munich Cluster for Systems Neurology

organized by:

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. 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 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.

Weather

It is fall and it may be cold already. For those who like to go on a walk: please bring your hiking boots.

Acknowledgements

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PROGRAM

Wednesday, October 24

- 12:00** The traditional “scientific walk” around the lake (if weather permits; we meet in the lobby)
- 15:00** **Welcome** (Christian Haass)
- 15:00 – 16:00** **Key Note Lecture**
Anthony Hyman, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany
Phase separation and quality control in neurodegenerative disease

16:00 – 18:30 **Phase separation**

Chair: Eckhard Mandelkow

- 16:00 – 16:30 Dorothee Dormann, University of Munich, Germany
Nucleocytoplasmic transport defects and aberrant phase transitions in neurodegenerative diseases

16:30 – 17:00 Coffee Break

- 17:00 – 17:30 James Shorter, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, USA
Antagonizing aberrant phase transitions connected to ALS/FTD
- 17:30 – 18:00 Peter St. George-Hyslop, University of Toronto, Canada & University of Cambridge, UK
Physiological and Pathological Condensation of FUS
- 18:00 – 18:30 Markus Zweckstetter, DZNE & Max Planck Institute for Biophysical Chemistry, Göttingen, Germany
Liquid-liquid phase separation of RNA polymerase II and Tau

19:00 Cocktails

20:00 Dinner

Thursday, October 25

9:00 – 12:30 **Neuroinflammation**

Chair: Thomas Misgeld

- 9:00 – 9:30 Lynette Foo, Pharmaceutical Research & Early Development, Roche Innovation Center, Basel, Switzerland
Harnessing in vitro capabilities to answer molecular mechanisms of myelination
- 9:30 – 10:00 Ali Ertürk, University of Munich, Germany
A new player of neuroinflammation
- 10:00 – 10:30 Mikael Simons, German Center for Neurodegenerative Diseases (DZNE), Munich, Germany
Function of microglia in remyelination

10:30 – 11:00 Coffee Break

Chair: Martin Kerschensteiner

- 11:00 – 11:30 Marco Colonna, Washington University School of Medicine, St. Louis, USA
Microglial control by activating and inhibitory receptors
- 11:30 – 12:00 Michela Matteoli, Humanitas Research Hospital, Milan, Italy
Immune-synaptopathies: when the immune system affects synaptic function
- 12:00 – 12:30 Michael Heneka, University Hospital & DZNE Bonn, Germany
Contribution of NLRP3 activation to brain pathology in neurodegenerative disease

Flash talks I (Poster presentations)

Chair: Christian Haass

- 12:30 – 12:45 Five two minute talks with one slide (selected from poster abstracts)

13:00 – 14:00 Lunch

14:00 – 15:00 Time for a walk around the lake

15:00 – 18:45 Special Topic (WashU/SyNergy collaboration)

Chair: Johannes Levin

- 15:00 – 15:30 David Holtzman, Washington University School of Medicine, St. Louis, USA
APOE: Role in amyloid- β accumulation and in tau-mediated neurodegeneration
- 15:30 – 16:00 Martin Kerschensteiner, University Hospital, Munich, Germany
Structural and functional alterations of projection neurons in the inflamed cortex
- 16:00 – 16:30 John Morris, Washington University School of Medicine, St Louis, Missouri, USA
Do Lessons Learned from Autosomal Dominant AD Extrapolate to Sporadic late Onset AD?

16:30 – 17:15 Coffee Break

Chair: Mikael Simons

- 17:15 – 17:45 Thomas Misgeld, Technical University of Munich, Germany
The neuronal cell biology of axon degeneration
- 17:45 – 18:15 Daniel Kerschensteiner, Washington University School of Medicine, Saint Louis, USA
Dissecting and restoring retinal circuits
- 18:15 – 18:45 Christian Haass, DZNE & University of Munich, Germany
Function and dysfunction of TREM2

Flash talks II (poster presentations)

Chair: Ali Ertürk

- 18:45 – 19:00 Five two minute talks with one slide (selected from poster abstracts)

19:00 Dinner

20:30 Poster Session with Drinks

Friday, October 26

9:00 – 10:30 Gut-brain interaction

Chair: Christian Behrends

- 9:00 – 9:30 Sam Sisodia, Center for Molecular Neurobiology, The University of Chicago, Chicago, USA
Role of the Gut Microbiome on Amyloidogenesis and Microglial Phenotypes in Transgenic Mouse Models
- 9:30 – 10:00 Arthur Liesz, University Hospital, Munich, Germany
The gut microbiota modulates post-stroke neuroinflammation
- 10:00 – 10:30 Rochellys Diaz Heijtz, Department of Neuroscience, Karolinska Institute, Stockholm, Sweden
Microbiota and Neurodevelopment: moving towards mechanisms

10:30 – 11:00 Coffee Break

11:00 – 12:30 DZNE

Chair: Jörg Schulz

- 11:00 – 11:30 Albert C. Ludolph, RKU - University and Rehabilitation Clinics Ulm
Katabolism, Hypothalamus and ALS – A therapeutic opportunity?
- 11:30 – 12:00 Andre Fischer, Neurodegenerative Disease (DZNE) University Medical Center Göttingen
Epigenetic strategies to treat Alzheimer's disease
- 12:00 – 12:30 Peter Heutink, German Center for Neurodegenerative Diseases (DZNE)-Tübingen
How do we translate Next Generation Sequencing genetic findings into biology?

13:00 Lunch

14:00 Departure

19:00 Dinner

for participants staying until Saturday, October 27