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THE NINETEENTH EIBSEE MEETING ON
**CELLULAR MECHANISMS OF
NEURODEGENERATION**

November 6-8, 2019

key note speakers:

J. Collinge (University College, London)

M. Goedert (MRC Laboratory of Molecular Biology, Cambridge)

P. Nicotera (DZNE Bonn)

P. Saftig (University of Kiel)

international speakers:

M. Blurton-Jones (University of California, Irvine)

S. Cotman (Harvard Medical School, Boston)

J. Hooker (Harvard Medical School, Boston)

F. Hu (Cornell University, Ithaca)

J. Lewcock (Denali Therapeutics Inc., South San Francisco)

E. McDade (Washington University, St. Louis)

R. Puertollano Moro (National Institutes of Health, Bethesda)

J. Schlachetzki (University of California, San Diego)

national speakers:

C. Behrends, M. Brendel, M. Jucker,

M. Kerschensteiner, T. Misgeld, A. Schulz,

J. Schulz, M. Simons, S. Tahirovic

organized by:

C. Haass (DZNE & University of Munich)

in conjunction with the final colloquium of SyNergy 1.0



Deutsche
Forschungsgemeinschaft



**The 19th Eibsee Meeting
(November 6-8, 2019)**

**CELLULAR MECHANISMS OF
NEURODEGENERATION**

funded by the

DZNE, German Center for Neurodegenerative Diseases - Munich

SyNergy, Munich Cluster for Systems Neurology

The Hans und Ilse Breuer Foundation

in conjunction with the final colloquium of SyNergy 1.0

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

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. We thank our additional sponsors, the NCL Foundation, F. Hoffmann-La Roche and Proteome Sciences, for their generous financial support.



PROGRAM

Wednesday, November 6, 2019

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

15:00 **Welcome** (Christian Haass)

15:10 – 15:50 **Keynote lecture I**

Chair: Christian Haass

Paul Saftig, University of Kiel, Germany

Understanding lysosomes, understanding neurodegeneration?

15:50 – 17:50 **Lysosomes and other organelles I**

Chair: Thomas Miggeld

15:50 – 16:10 Rosa Puertollano Moro, National Institutes of Health, Bethesda, USA

Mechanisms of lysosomal response to stress

16:10 – 16:50 Coffee Break

16:50 – 17:10 Fenghua Hu, Cornell University, Ithaca, USA

Lysosomal dysfunction in FTL

17:10 – 17:30 Susan Cotman, Harvard Medical School, Boston, USA

Lysosomal function in the NCL disorders

17:30 – 17:50 Angela Schulz, University of Hamburg, Germany

New therapeutic aspects of neuronal ceroid lipofuscinoses

18:00 Cocktails

18:30 Dinner

Thursday, November 7

9:00 – 9:40 **Keynote lecture II**

Chair: Christian Behrends

Michel Goedert, MRC Laboratory of Molecular Biology, Cambridge, UK

Tau filament conformers

9:40 – 11:20 **Lysosomes and other organelles II**

Chair: Paul Saftig

9:40 – 10:00 Christian Behrends, University of Munich, Germany

Mapping targets of autophagosomal-lysosomal degradation

10:00 – 10:40 Coffee Break

10:40 – 11:00 Sabina Tahirovic, DZNE Munich, Germany

Early microglial pathology in Niemann-Pick type C disease

11:00 – 11:20 Thomas Miggeld, Technical University & DZNE Munich, Germany

Localized synaptic degradation of neuronal mitochondria

Presentation of the NCL Foundation

11:20 – 11:30 Frank Stehr, NCL Foundation, Hamburg, Germany

For a future without childhood dementia

Flash talks I (Poster presentation)

Chair: Christian Haass

11:30 – 11:42 Six two minute talks with one slide

12:00 – 13:30 Lunch

13:30 – 15:00 Time for a walk around the lake

15:00 – 17:20 Glial cells in neurodegeneration

Chair: Sabina Tahirovic

15:00 – 15:20 Joe Lewcock, Denali Therapeutics Inc., South San Francisco, USA
Therapeutic strategies for the treatment of Alzheimer's disease based on human genetics

15:20 – 15:40 Mathew Blurton-Jones, University of California, Irvine, USA
Using iPSC-microglia and chimeric mouse models to study the function of Alzheimer's disease risk genes

15:40 – 16:00 Johannes Schlachetzki, University of California, San Diego, USA
The epigenetic landscape of human microglia in health and neurodegeneration

16:00 – 16:40 Coffee Break

16:40 – 17:00 Mikael Simons, DZNE & Technical University Munich, Germany
How glia promote neuronal survival

17:00 – 17:20 Martin Kerschensteiner, University Hospital Munich, Germany
Regulation of phagocyte phenotypes during CNS inflammation

Flash talks II (Poster presentations)

Chair: Christian Haass

17:20 – 17:30 Five two minute talks with one slide (selected from poster abstracts)

18:00 Dinner

19:30 Poster Session with Drinks

Friday, November 8

9:00 – 9:40 Keynote lecture III

Chair: Mathias Jucker

John Collinge, University College London, UK
Is Alzheimer's disease infectious?

9:40 – 11:40 Biomarkers and imaging

Chair: Martin Kerschensteiner

9:40 – 10:00 Mathias Jucker, University & DZNE Tübingen, Germany
Targeting proteopathic seeds in Alzheimer's disease

10:00 – 10:20 Eric McDade, Washington University, St. Louis, USA
Using neuroimaging and soluble tau to track the tauopathy of autosomal dominant Alzheimer's disease

10:20 – 11:00 Coffee Break

11:00 – 11:20 Jacob Hooker, Harvard Medical School, Boston, USA
Insights into human neurodegeneration using multi-modal molecular imaging

11:20 – 11:40 Matthias Brendel, University Hospital Munich, Germany
Second generation Tau-PET for detection of Alzheimer's disease and 4R tauopathies

Special Topic

11:40 – 11:50 Jörg Schulz, University of Aachen, Germany
Any hope from new Aducanumab data?

Farewell lecture

Chair: Jörg Schulz

11:50 – 12:10 Pierluigi Nicotera, DZNE Bonn, Germany
Alzheimer therapy – where we are and where we go

12:15 – 13:30 Lunch

13:30 Departure

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