

NEURODEGENERATIVE DISEASES

Programme Danish Society for Neuroscience Annual Meeting 2017



Dansk Selskab for **Neurovidenskab**
Danish Society for **Neuroscience**



SYMPOSIUM ORGANIZERS

Poul Henning Jensen, Aarhus University

Nicolas Caesar Petersen, Copenhagen University

Karina Fog, Lundbeck A/S

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Location

Hotel Hesselet, Christianslundsvej 119, 5800 Nyborg, Denmark

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MONDAY MAY 8TH

09.00 – Arrival, coffee and registration

10.00 – Welcome, Poul Henning Jensen

10.10-10.55 - Introductory lecture: Fred van Leuven, KU Leuven

Alzheimer's disease: paradigm of pre-clinical success & clinical failure!

Chair: Poul Henning Jensen

Session 1: Alzheimer's disease

Chair: Poul Henning Jensen

11.00-11.30 – Bernard Jeune, SDU, Denmark.

Challenges of living a long life. Age-trajectories of cognitive impairments and disability.
Are we adding bad or good years?

11.35-12.05 – Gunnar Gouras, Lund University, Sweden.

Beta-amyloid and synapse dysfunction in Alzheimer's disease.

12.10-13.00 - Lunch

Chair: Karina Fog

13.00-13.30 – Kasper Planeta Kepp, Technical University of Denmark, DK.

From Proteins to Patients: Molecular mechanisms of Alzheimer's Disease from Chemical-Clinical Correlators

13.35-14.05 – Maiken Nedergaard, KU.

Glymphatic system and Alzheimer's disease

Session 2: Tauopathies

Chair: Lone Helboe

14.10-14.40 – Kristine Freude, University of Copenhagen

Cellular phenotypes of AD iPSC derived neurons

14.40 – 15.10 – Christiane Volbracht, Lundbeck A/S.

Tau in physiology and pathology: Seeding of tau pathology in primary neurons

15.10-15.30 Refreshments

Session 3: Synucleinopathies -

Gathering of national synuclein investigators, organized in collaboration with Parkinsonforeningen

15.30-15.35 Introduction by prof. Jens Zimmer on behalf of Parkinsonforeningen

Structure and in vitro aggregation studies

Chair: Jens Zimmer Rasmussen

15.35-15.55 Daniel E. Otzen iNANO, AU

Amyloid inhibitors in plants: chance or design?

16.00-16.20 Thomas J.D. Jørgensen, SDU

Probing the structures of native and pathological α -synuclein species by hydrogen/deuterium exchange monitored by mass spectrometry

Session 4: Neuroinflammation, tissue spreading and α -synuclein

Chair: Jens Zimmer Rasmussen

16.25-16.45 Marina Romero-Ramos, AU;

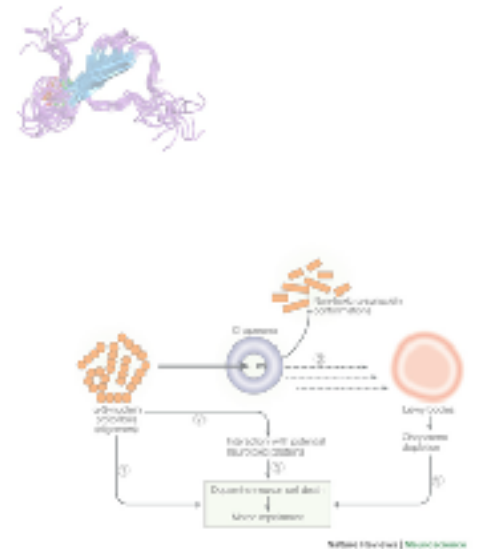
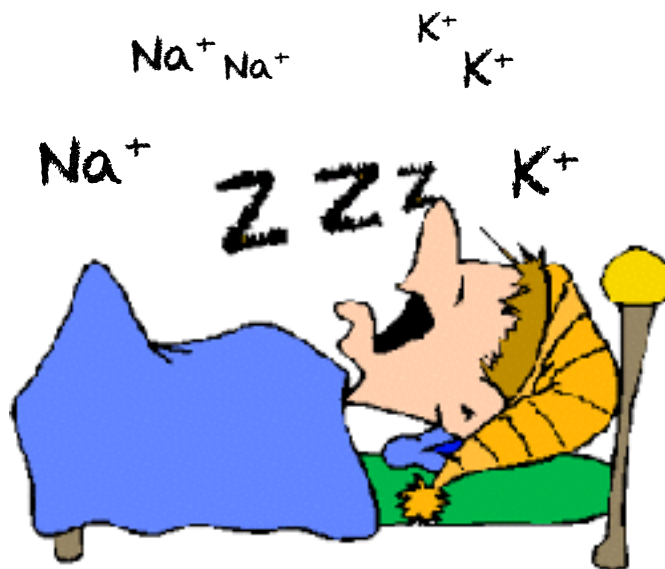
Immune system, an active player in Parkinson's disease.

16.50-17.10 Pekka Kalunki & PH Jensen, Lundbeck A/S & Dandrite

Mouse models of prion-like synuclein pathology

17.20-18.30 Posters

19.00 Conference Dinner



TUESDAY MAY 9TH

7.30 - Breakfast

8.30-9.15 Introductory lecture: Mathias Jucker

The prion-like concept in neurodegenerative diseases

Chair: Poul Henning Jensen

Regulation of α -synuclein levels

Chair: Poul Henning Jensen

9.25-9.40 Jørgen Kjems, iNANO, AU

Regulering af α -synuclein ekspression ved viral overførsel af non-coding RNA til en in-vivo Parkinson model.

9.45-10.00 Rikke Hahn Kofoed, Dandrite, AU,

PLK-2 regulates α -synuclein phosphorylation and mRNA expression

10.05-10.15 Morten S. Nielsen, Inst. f. Biomed. Vest, AU

Receptor mediated endocytosis of alpha-synuclein and transport across the blood brain barrier

10.15-10.30 Refreshments

Toxicity and cellular handling of α -synuclein species

Chair: Jens Zimmer Rasmussen

10.30-10.50 Patrick Ejlerskov, KU & Cambridge Univ.

Involvement of Interferon-beta signaling pathway in Parkinson's disease

10.55-11.15 Frederik Vilhardt, KU

Stress kinases in the control of alpha-synuclein secretion from synucleinopathic neurons

11.20-11.40 Poul Henning Jensen, AU

Early decisive Calcium changes in Parkinsons disease.

11.45-12.00 Morten Meyer, Neurobiol Forsk, SDU

Alpha-synuclein in dopaminergic neurons derived from isogenic induced pluripotent stem cells with and without PARK2 mutation.

12.00-13.00 Lunch

Biomarkers

Chair: Karina Fog

13.00-13.10 Nicola Pavese, CFIN, AUH

Neuroinflammation in the prodromal phase of Parkinson's disease

13.15-13.35 Per Borghammer, Dep. of Nuclear Medicine & PET Center, AUH

In vivo Braak staging of Parkinson's disease using PET and MRI

13.40-14.00 Tomasz Brudek, Forsk. lab. f. Stereol. og Neurovid., Bispebjerg Hosp.

Alpha-synuclein autoantibodies and clinical correlations

Therapeutic strategies

Chair: Nicolas Caesar Petersen

14.05-14.25 Karina Fog, Lundbeck A/S

Alpha-synuclein antibodies as therapeutics in synucleinopathies – Focus on mechanism of action

14.30-14.50 Malene Ambjørn/Ann-Louise Bergström, Lundbeck A/S

Establishment of a model system to screen for deubiquitinases affecting alpha-synuclein aggregering

14.55 Concluding remarks by Karina Fog

15.00-15.30 Refreshments and farewell