

The Neuro4D Conference 2026

Atrium Hotel Mainz – Mainz, Germany – Close to Frankfurt Airport



DEGENERATIVE
DISEASE
DRUG
DISCOVERY

**MONDAY
MAY 04TH**

8:00 – 8:30		
Registration and Joint Breakfast in Foyer, attach Posters		
8:30 – 8:55		
Opening of the Conference – <i>Andreas Köpke, bioExpert</i>		
8:55		
Development of the Life ScienceHub Mainz – <i>Tim Roos, biomindz</i>		
9:00 – 9:30		
Cellular Senescence and Aging in Neurodegenerative Diseases: Opportunities for Drug Discovery? <i>Chair: Roger Sher, Stony Brook University, USA</i>		
PANEL 09:30 – 10:30		
Senescence in Neurodegeneration	HMGB1 mediates senescence and cognitive dysfunction in tauopathies	Rakez Kaye UTMB, USA
	Aging, Inflammation, and Neurodegeneration: Unraveling the Senescent Brain in Parkinson's Disease	Markus Riesland Stony Brook University, USA
Animal Models of PD	In vivo Models for Parkinson's Disease Translation: Connecting Mechanism, Efficacy, and Biomarkers	Ayse Ulusoy DZNE Bonn, Germany
Panel Q&A of Session Speakers <i>Chair: Roger Sher, Stony Brook University, USA</i>		
10:30 – 11:30		
Coffee Break, Exhibition & Poster viewing		
PANEL 11:30 – 12:30		
New AD Mode of Action	Identification of a novel A β (pGlu3-x) targeting pathway in Alzheimer's disease	Sarah Schrepel University of Leipzig, Germany
New AD Mode of Action	Finding the right target for Abeta immunotherapy – PTM-targeting antibodies differentially mediate inflammation and phagocytosis	Stefan Schilling IZI Fraunhofer Inst., Germany
	Lysosome targeting in Parkinson's Disease: From Pathophysiology to Therapy	Friederike Zunke Friedrich-Alexander-University, Germany
Panel Q&A of Session Speakers <i>Chair: Roger Sher, Stony Brook University, USA</i>		
12:30		
Lunch		

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13:30		
TREM2 agonism – where do we stand and what is needed for therapy? <i>Chair: Christian Haass, DZNE, LMU, Germany</i>		
PANEL 14:00 – 15:00		
Neuroinflammation	Brain-Shuttle Mediated TREM2 PET for Highly Specific Assessment of Activated Myeloid Cells	Matthias Brendel LMU, Germany
	TREM2 activation: Harnessing the brain's immune system to treat neurodegeneration	Agnes Cheong Sanofi, UK
	TransportVehicle engineering improves activity of TREM2 antibodies	Lihong Zhan Denali, USA
Panel Q&A of Session Speakers <i>Chair: Christian Haass, DZNE, LMU, Germany</i>		
15:00 – 16:00		
Coffee Break, Exhibition & Poster Session (Presenters will be at their posters.) Time for One on One Meetings		
PANEL 16:00 – 17:00		
Neuroinflammation	Inhibition of prolyl endopeptidase to reduce neuroinflammation	Franziska Richter Assencio Center for Systems Neuroscience Hannover, Germany
Service Company Presentation	De-risking drug development in neurodegenerative and age-related diseases	Stefan Ebner-Benke Scantox, Austria
Clearing toxic protein aggregates	Detangling toxic aggregates	Dieter Willbold Priavoid, Germany
Panel Q&A of Session Speakers <i>Chair: Christian Haass, DZNE, LMU, Germany</i>		
17:00		
Reception in the foyer with local wine and beer specialties		
17:30		
From Data to Dialogue: Toasting to Better Science Conversations <i>Laura Lindenfeld, Alan Alda Center for Communicating Science</i>		
18:30 – 22:00		
Dinner		
We will have a seated BBQ dinner, accompanied by fitting local wines! Depending on the weather, we will be on the hotel terrace, or in an adjacent room.		
END OF THE FIRST DAY		

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**TUESDAY
MAY 05TH**

8:00		
Joint Breakfast, Exhibition & Poster Viewing		
PANEL 9:00 – 10:00		
New MoA	Amisulpride derivative as novel drug in Tau-associated neurodegenerative diseases	Josephine Labus MHH, Germany
tbd	tbd	tbd
TDP-43 Aggregates and Disease	Misfolded TDP-43 transmits intercellularly via large seeding particles, and is toxic intracellularly via small oligomers	Neil Cashman UBC, Canada
<p>Panel Q&A of Session Speakers <i>Chair: Wiebke Jürgens-Wemheuer, Uni. Saarland, Germany</i></p>		
10:00 – 11:00		
<p>Coffee Break, Exhibition & Poster Session (Presenters will be at their posters.) Time for One on One Meetings</p>		
11:00 – 11:30		
<p>On the trail of protein aggregates: using RT-QuIC to detect α-synuclein aggregates in salivary gland biopsies <i>Chair: Wiebke Jürgens-Wemheuer, Uni. Saarland, Germany</i></p>		
PANEL 11:30 – 12:30		
Blood diagnosis	Neuro-IP as method for improvement of Alzheimer's disease diagnostic by blood tests	Ingolf Lachmann Roboscreen GmbH, Germany
Nasal sampling for diagnosis	Beyond CSF and Blood: Nasal Fluid as a Window into Brain Biology!	Sabine Mertzig Noselab, Germany
Seed quantification	From misfolding to medicine: SeNostic's Seed Cyclor enables diagnosis and drug discovery for proteopathies	Joachim Glaubitz SeNostic, Germany
<p>Panel Q&A of Session Speakers <i>Chair: Wiebke Jürgens-Wemheuer, Uni. Saarland, Germany</i></p>		
12:30		
Lunch		

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13:30

Towards a biomarker-driven diagnosis of Alzheimers dementia: Obstacles and uncertainties
Chair: *Oliver Peters, Charité, Germany*

PANEL 14:00 – 15:00

New Therapeutic Option	TRB-001, a novel alpha-synuclein-based candidate vaccine for the treatment and prevention of Parkinson's disease	Achim Schneeberger Tridem Bioscience, Austria
Therapeutic Improvements	Delivering α -synuclein antibodies into the brain via the BrainTransporter technology	Fredrik Eriksson Bioarttic, Sweden
Marketing approval and reimbursement	From EMA to G-BA: Implementing anti-amyloid therapy in Germany	Lutz Frölich U. Heidelberg, Germany

Panel Q&A of Session Speakers
Chair: *Oliver Peters, Charité, Germany*

15:00

Coffee Break & Final Poster Session

15:30

Panel Diskussion:

- Is the GBA decision justified and final - and what does that mean for future AD therapy developments? How can the current immunotherapy be improved in terms of efficacy and safety?
- How accurate are current and developing diagnostics for neurodegenerative diseases and what are the implications for patients and therapies?
- Should new therapies focus on neuroinflammation and improvement of synaptic health?

Panel Participants: *Oliver Peters, Lutz Frölich, Neil Cashman, Wiebke Wemheuer, Christian Haass*
Moderator: *Andreas Köpke, bioExpert*

16:15

Potser price, Summary and Wrap-up of the conference

16:30

END OF THE CONFERENCE AND DEPARTURE