



HEAT-NET Frontiers in Neurodegeneration: from bench to bedside

Final program – HEAT-net Meeting – June 3rd-5th

June 3rd, Wednesday

13:00 Arrival

13:30 Welcome: Dean of UMG (Prof. Wolfgang Brück, invited to speak) and organizers (Tiago Outeiro, Christine von Arnim, Martin Ingelsson, Alberto Lleo)

Session 1

Title: Synaptic dysfunction: where it all starts

Chair: Tiago Outeiro, Karin Danzer

13:50-14:15 Tiago Outeiro: Alpha-Synuclein at the synapse: dangerous interactions

14:15-14:40 Tara Spiers: Synapse degeneration and resilience in ageing and neurodegeneration - the role of microglia in synaptic degeneration in Alzheimer's disease

14:40-15:05 Ed Stern: Pathophysiology in neurodegenerative disease models as a marker and possible therapeutic approach

15:10-15:30 Coffee break

Session 2

Title: Preclinical models of neurodegeneration

Chair: Annakaisa Haapasalo, Lars Bertram

15:30-15:55 Annakaisa Haapasalo: Effects of the C9orf72 repeat expansion in FTLD preclinical models

15:55-16:20 Monica Garcia Alloza: Alzheimer's disease and diabetes mellitus: models and translational implications

16:20-16:45 Christine Stadelmann-Nessler: Neurodegenerative aspects of multiple sclerosis



Keynote lecture

16:45-17:45 Rudy Tanzi: The Innate Immune Hypothesis of Alzheimer's disease

18:00 Welcome reception

19:00 Speakers dinner



June 4th, Thursday

8:30 coffee

Session 3

Title: The genetic landscape of neurodegeneration

Chair: Christina Lill, Martin Ingelsson

9:00-9:25 Lars Bertram: The role of micro-RNAs in Alzheimer's and Parkinson's disease

9:25-9:50 Jochen Weishaupt: TBK1-associated neurodegeneration

9:50-10:15 Christina Lill: Risk prediction in Parkinson's disease

Coffee break

Session 4

Title: The heat is on: Inflammation in neurodegeneration

Chair: Tara Spires-Jones, Mikko Hiltunen

10:40-11:05 Christine von Arnim: Neuropsychiatric symptoms, stress and inflammation in dementia

11:05-11:30 Karin Danzer: The role of monocytes in Parkinson's disease and ALS

11:30-11:55 Andre Fischer: Epigenetic regulation of conserved gene-expression networks in neurodegenerative diseases

12:00-13:30 Lunch and posters

13:30-13:55 Mikko Hiltunen: Microglial molecular regulatory networks in neurodegeneration

Session 5

Title: Emerging biomarkers: tools for diagnosis and treatment

Chair: Alberto Lleo, Christine von Arnim

13:55-14:20 Alberto Lleo: Synaptic proteins in biofluids in neurodegenerative dementias

14:20-14:45 Markus Otto: Fluid biomarkers in Frontotemporal dementia and Amyotrophic Lateral Sclerosis

14:45-15:10 Coffee break

15:10-15:35 Jens Wiltfang: Current and Emerging Molecular Biomarkers for the Blood-Based Early Diagnostics of Alzheimer's disease

15:35-16:00 Brit Mollenhauer: Emerging biomarkers in Parkinson's disease

16:00-16:25 Inga Zerr: Biomarker research to understand molecular heterogeneity in neurodegenerative diseases



Keynote lecture

16:30-17:30 Bradley T. Hyman: How heterogeneous is Alzheimer's disease clinically and biologically?

Meeting Dinner



June 5th, Friday

8:30 coffee

Session 6

Title: Treating neurodegeneration: Present and Future

Chair: Jochen Klucken, Monic Garcia-Alloza

9:00-9:25 Mathias Bähr: Alpha-synuclein toxicity - experimental therapy strategies

9:25-9:50 Martin Ingelsson: CRISPR/Cas9 as a novel gene therapy tool for neurodegenerative diseases

9:50-10:15 Jochen Klucken: Translation in data-driven medicine: from bed back to bench

Coffee break

Keynote lecture

10:45-11:45 Lars Lannfelt: Targeting A β protofibrils with BAN2401 - from mutation to potential therapy for Alzheimer's disease

Closing session

11:45- Roundtable – Expert discussion

12:30-14:00 Lunch and posters

14:00-16:00 Internal HEAT-net workshop

Funding options

Future plans

16:00 Joint social activity

