Program

Thursday, June 21st

9:30 Reception and registration

10:15 Opening session - Jörg Schulz and Margarida Gama-Carvalho

Session I - Models of neurodegeneration - from cells to model organisms
Chair: David Van Vactor, Harvard Medical School

10:30 – 11:00 - Richard I. Morimoto, Northwestern University
The Stress of Misfolded Proteins in Aging and Neurodegenerative Diseases

11:05 – 11:35 - Claire Russell, Royal Veterinary College
In vivo drug discovery identifies a compound that reduces seizure-like activity in the zebrafish model of CLN2 disease

11:40 – 12:10 - Coffee-break

12:10 – 12:40 - Aaron Voigt, RWTH Aachen University
Drosophila as a model organism for neurodegenerative diseases

12:45 – 13:15 - Dora Brites, iMed, University of Lisboa
Astrocyte phenotypic diversity in amyotrophic lateral sclerosis and therapeutic opportunities

Session II - Basic mechanisms of neuronal function and dysfunction
Chair: Tiago Outeiro, UMC, Goettingen

14:30 – 15:00 David Van Vactor, Harvard Medical School
Mutants Lacking Drosophila Smn Display SMA Disease-relevant Neuromuscular Defects that Can be Rescued by Elevation in Conserved Transynaptic Signaling Pathways

15:05 – 15:35 Martina Hallegger Ule Lab, University College of London
The intrinsically disordered region of TDP-43 is essential for gene regulation

15:40 – 16:10 Florence Besse, Université Nice Sophia Antipolis
Regulating neuronal RNP granules in space and time

16:15 – 16:45 Claudio Gomes, BioISI, University of Lisboa
Neuroinflammation meets protein aggregation: the neuronal S100B alarmin is a calcium-tuned suppressor of Aβ aggregation

17:00 – 19:00 - Coffee-break/Poster session
Session III - Computational and modelling approaches for data integration

Chair: Francisco Pinto, BioISI, University of Lisboa

9:30 – 10:00 - Lawrence Rajendran, University of Zurich
Systems biology approaches identify nutrient sensing as a target mechanism for Alzheimer’s disease

10:05 – 10:35 - Javier De Las Rivas, University of Salamanca
Bioinformatics for the discovery of biomarkers: application to the identification of novel gene markers in Alzheimer’s disease

10:40 – 11:10 - Coffee-break

11:10 – 11:40 - Sara Madeira, DI, University of Lisboa
Predicting disease progression in Amyotrophic Lateral Sclerosis using time windows and progression patterns

11:45 – 12:15 - Martin Hofmann-Apitius, Fraunhofer SCAl
Integrative modeling and mining in neurodegeneration research: towards longitudinal understanding of disease mechanisms

Session IV - Insights from cross-disease studies

Chair: Cláudio Gomes, BioISI, University of Lisboa

14:00 – 14:30 - Tom Gillingwater, University of Edinburgh
UBA1/GARS-dependent pathways link spinal muscular atrophy and Charcot-Marie-Tooth disease

14:35 – 15:05 - Luis Pereira de Almeida, CNC, University of Coimbra
Neurodegenerative diseases: From common mechanisms to promising therapies

15:10 – 15:40 - Margarida Gama Carvalho, BioISI, University of Lisboa
Unravelling common pathways for motor-neuron degeneration in SMA and ALS

15:45 – 16:15 - Peter Heutink, DZNE-Tübingen
Risk and Modifying factors in Fronto Temporal Dementia (RiMod-FTD)

16:30 – 17:00 - Coffee-break
Selected talks session

Chair: Margarida Gama-Carvalho, BioISI, University of Lisboa

17:00 – 17:15 Joana Margarida Silva, ICVS, University of Minho
Chronic stress triggers Tau pathology through autophagy inhibition and induction of stress granules

17:20 – 17:35 Maria L. Spletter, Ludwig-Maximilians-Universität München
Scaf6 (DmCHERP) regulates the development of muscle and neurons in Drosophila

17:40 – 17:55 Luís Sousa, CEDOC, NOVA Medical School
Elucidating the role of Synucleins in retinal neurodegeneration in Parkinson’s disease, diabetes and ageing

18:00 – 18:15 Richard Tuxworth, University of Birmingham
Suppression of the DNA damage response protects the nervous system from pathology

18:20 – 18:35 Marie Bordone, iMM, University of Lisboa
Decoupling cellular composition and molecular alterations in Alzheimer’s and Parkinson’s brains

Saturday, June 23rd

Session V - Integrating Basic and Clinical Research

Chair: Aaron Voigt, RWTH Aachen University

9:00 – 9:30 Tiago Outeiro, University Medical Center Goettingen
Modulation of alpha-synuclein biology and pathobiology via posttranslational modifications

9:35 – 10:05 Joachim Weis, RWTH Aachen University
RNA binding protein pathology in ALS and vacuolar myopathy

10:10 – 10:40 Coffee-break

10:45 – 11:15 Joaquim Ferreira, iMM, University of Lisboa
Why are we failing developing new medicines in neurodegenerative diseases?

11:20 – 11:50 Jörg Schulz, RWTH Aachen University
Translating basic science into clinical applications – Opportunities and Pitfalls

12:00 Closing Remarks - Margarida Gama-Carvalho, BioISI, University of Lisboa

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