

FINAL PROGRAMME

WEDNESDAY, NOV 20 (ALL TIMES IN CENTRAL EUROPEAN TIME, "SPAIN TIME")

14:30 CET **Opening remarks**
Arantxa Tabernero
Chair of the Spanish Glial Network

SHORT TALKS I (Chairs: Juliana M. Rosa and Teresa Summavielle)

14:40 CET **Microglia mitochondrial complex I deficiency during development induces glial dysfunction and early lethality**
Bella Mora Romero
Instituto de Biomedicina de Sevilla

14:55 CET **When your support cells are not supportive: Astrocytic changes contribute to synaptic dysfunction in the SOD1G93A mice**
Sara Costa Pinto
Instituto de Medicina Molecular, Universidade de Lisboa

15:10 CET **Blood-brain barrier penetrance of the peptide Tat-Cx43266-283 against glioblastoma**
Raquel Flores Hernández
Instituto de Neurociencias de Castilla y León, Universidad de Salamanca

15:25 CET **Immune-mediated synaptic elimination: a key factor for cognitive decline in multiple sclerosis**
Catalina Barros
Research Institute for Medicines (iMed), Universidade de Lisboa

15:40 CET **Role of KAT3 in Schwann cell development and nerve regeneration**
Raquel Peña Romero
CiMUS, Universidad de Santiago de Compostela

PLENARY LECTURE I (Chair: Arantxa Tabernero)

16:00 CET **Implications of the tripartite synapse in the brain reward system**
Ana Covelo
Universidad de Vigo

SHORT TALKS II (Chairs: Francisco Ambrosio and José Antonio Gómez Sánchez)

16:45 CET **Glial-derived cytokine regulating proliferation**
Anabel Rodriguez Simões
Champalimaud Foundation

17:00 CET **Imaging glial reactivity in vivo using diffusion magnetic resonance imaging**
Antonio Cerdán Cerdá
Instituto de Neurociencias, Alicante

17:15 CET **Fat and furious: Obesity as an accelerator of multiple sclerosis mouse model pathogenesis progression**
Alexandre Neto
Research Institute for Medicines (iMed), Universidade de Lisboa

17:30 CET **Unveiling the therapeutic potential of Mir-124-3p-enriched exosomes in a novel microfluidic triculture model of neuron-glia crosstalk in Alzheimer's disease**
Gonçalo Garcia
Research Institute for Medicines (iMed), Universidade de Lisboa

17:45 CET **Müller glial cells located in the peripheral retina are more susceptible to high pressure: Implications for glaucoma**
Xandra Pereiro
Universidad del País Vasco (UPV/EHU), Leioa

SHORT TALKS III (Chairs: Maite Solas and Sandra Vaz)

- 14:30 CET** **Catching astrocyte ensembles: astrocytic ensembles tune cue- motivated behavior**
Irene Serra Hueto
Instituto Cajal, CSIC, Madrid
- 14:45 CET** **Restoring microglial vitamin C transport as a novel strategy to treat dementia-related neurodegenerative diseases**
Camila Cabral
Instituto de Investigação e Inovação em Saúde (i3S), Universidade do Porto
- 15:00 CET** **Viral-mediated fluorescent labelling of hyaluronan reveals extracellular matrix dynamics in live brain tissue**
Mario Fernández Ballester
Achucarro Basque Center for Neuroscience, Bilbao
- 15:15 CET** **CB1R modulates glutamate transporters, influencing LTD and depressive-like behavior**
Joana Gonçalves-Ribeiro
Instituto de Farmacologia e Neurociências, Universidade de Lisboa
- 15:30 CET** **Astrocyte activity triggers adaptive myelin plasticity and increased neuronal excitability in the somatosensory cortex following sensory deprivation**
Marina Sánchez Petidier
Hospital Nacional de Paraplégicos, Toledo

PLENARY LECTURE II (Chair: João Oliveira)

- 15:50 CET** **The RhoAD ahead: Rho GTPases in microglia-synapse crosstalk**
Renato Socodato
Instituto de Investigação e Inovação em Saúde (i3S), Universidade do Porto

SHORT TALKS IV (Chairs: Ana Raquel Santiago and Federico N. Soria)

- 16:35 CET** **hNPC-exosomes loaded with mir-124 modulate glial activity and neuroinflammation in the 5xFAD mouse model of Alzheimer's disease**
Mafalda Migueis
Research Institute for Medicines (iMed), Universidade de Lisboa
- 16:50 CET** **Organoids as a new method to fight against glioblastoma**
Laura Porres Ventín
CiMUS, Universidad de Santiago de Compostela
- 17:05 CET** **Astrocytic FOXO1 regulates hippocampal spinogenesis and synaptic plasticity and enhances fear memory**
Daniela Sofia Abreu
Life and Health Sciences Research Institute (ICVS), Universidade de Minho, Braga
- 17:20 CET** **Nociceptive Schwann cells' role in chemotherapy-induced peripheral neuropathy**
Miguel Ángel Serrano Lope
Instituto de Neurociencias, Alicante
- 17:35 CET** **Lipid nanoparticle-mediated delivery of pitavastatin and mir-338 as a promising therapy for brain tumors**
João Basso
Universidade de Coimbra
- 17:50 CET** **Concluding remarks**
João Oliveira
Chair of the Portuguese Glial Network