



IV Symposium
29 May 2019
FFULisboa

Glia Diversity in Neuromodulation and Neurodegeneration

Venue: Faculty of Pharmacy, University of Lisbon

Auditorium Maria Odette Santos-Ferreira

Av. Prof Gama Pinto (GPS: 38.44 58 61, -9. 9 26 51)

The Portuguese Glial Network invites you to attend and participate at the IV Symposium of the Portuguese Glial Network on May 29th, 2019. The Symposium will be held at the Faculty of Pharmacy of the University of Lisbon (FFULisboa). This Glial meeting will focus on indirect and direct conversion of somatic cells into neural cells to model diseases of the central nervous system (CNS), and on new evidences about the specific roles of different glial cell types, their regional diversity, and contribution to disease onset, progression and neurodegeneration. Emphasis will be given in how glial cells and neurons are intermingled and mutually depend on each other to maintain CNS homeostasis. The Symposium will provide forward looking activities where students will have the opportunity to interact, share and discuss their research data, as well as receive constructive feedback from scientists and leaders in the field.

PROGRAM

09:30-10:00 REGISTRATION

10:00-10:15 WELCOME

Dora Brites

10:15-11:00 – PLENARY LECTURE | ROCHE

"Can induced pluripotent stem cells help us decipher the role of glial cells in Parkinson's disease?"

Laurent Roybon (Lund University, Sweden)

11:00-11:30 – COFFEE BREAK

11:30-13:00 | SESSION I – ASTROCYTES: BIOLOGY AND PATHOLOGY

Chair: *João Oliveira* (ICVS, University of Minho, Portugal)

11:30-12:00 – "Skin derived astrocytes as a tool to study disease severity and drug responsiveness"

Kathrin Meyer (The Ohio State University, USA)

12:00-12:20 – "The role of NLRP3-expressing astrocytes in the brain"

Claudia Valente (IMM Lisboa, University of Lisbon, Portugal)

12:20-12:40 – "Astrocyte phenotypic aberrancy differs from the spinal cord to the cortical brain in ALS disease"

Ana Rita Vaz (iMed.Ulisboa, University of Lisbon, Portugal)

12:40-12:50 – Selected O.I.1. – "The role of astrocytic calcium signaling in the cognitive function"

Sónia Guerra-Gomes (ICVS/School of Medicine)

12:50-13:00 – Selected O.I.2. - "Microglial and astrocytic pathology in a mouse model of Machado-Joseph disease"

Ana Bela Campos (ICVS, UMinho)

13:00-14:00 – LUNCH

14:00:15:30 | SESSION II – MICROGLIA ACTIVATION AND IMMUNOREGULATION

Chair: *Francisco Ambrósio* (CNC.IBILI Consortium, University of Coimbra, Portugal)

14:00-14:30 – “Modeling microglial dysfunctions in AD”

Tarja Malm (University of Eastern Finland, Finland)

14:30-14:50 – “Controlling microglia-mediated neuroinflammation in retinal diseases: role of adenosine A2A receptors”

Raquel Santiago (CNC.IBILI Consortium, Universidade de Coimbra, Portugal)

14:50-15:10 – “Emerging roles of glial Striatal-Enriched Protein Tyrosine Phosphatase (STEP)”.

Graça Baltazar (CICS-UBI-Health Sciences Research Centre, University of Beira Interior, Portugal)

15:10-15:20 – Selected O.II.1. – “TNF and glutamate dependent microglia reactivity under a psychoactive drug”

Teresa Summavielle (i3S)

15:20-15:30 – Selected O.II.2. – “IL-4 skews the microglial developmental program during cerebellar maturation”

Joana Guedes (CNC, University of Coimbra)

15:30:17:00 | SESSION III - NETWORK WITH SCIENTISTS AND INTERACTIVE POSTER SESSION

This session, besides allowing the view of the posters, features discussion groups that are led by moderators who ensure focused conversations around the key issues listed in each selected poster by session topic. Attendees should bring their printed A4 poster copies and informal setting will facilitate sharing of ideas and active networking.

(With coffee and drinks, Library of the Faculty of Pharmacy)

Poster viewing 15:30 - 16h00 Presenting authors are kindly requested to be near their posters for informal discussion	Table I – Astrocytes <i>Discussion Leaders:</i> <i>João Oliveira and Graça Baltazar</i> 16h00 – A.I.1. Ana Bernardo, iCBR 16h15 – A.I.2. Cátia Gomes, iMed.Ulisboa 16h30 – A.I.3. Joana Gomes, IMM	Table II – Microglia <i>Discussion Leaders:</i> <i>Francisco Ambrósio and Tarja Malm</i> 16h00 – A.II.1. Gonçalo Garcia, iMed.Ulisboa 16h15 – A.II.2. Illyane Lima, CEDOC 16h30 – A.II.3. Camila Cabral Portugal, IBMC/i3s
Table III – Oligodendrocytes <i>Discussion Leaders:</i> <i>Ana Seixas and Tanja Kuhlmann</i> 16h00 – A.III.1. Joana Mateus, IMM 16h15 – A.III.2. Catarina Barros, iMed.Ulisboa 16h30 – A.III.3. Rita Soares, IMM JLA	Table IV – Glial-neuronal interactions <i>Discussion Leaders:</i> <i>Laurent Roybon and Ana Rita Vaz</i> 16h00 – A.IV.1. Haissa de Castro, U. Lausanne 16h15 – A.IV.2. Pedro Dionísio, iMed.Ulisboa 16h30 – A.IV.3. Catarina Sequeira, iMed.Ulisboa	Table V – Mixed Topics <i>Discussion Leaders:</i> <i>Adelaide Fernandes and João Relvas</i> 16h00 – A.V.1. Diana Nascimento, ICVS/3B's 16h15 – A.V.2. Andreia Pinho, ICVS/3B's 16h30 – A.V.3. Inês Aires, iCBR-FMUC

17:00-18:00 | SESSION IV – OLIGODENDROCYTES: MYELIN DYSFUNCTION AND RENEWAL

Chair: *João Relvas* (i3S/IBMC, University of Porto, Portugal)

17:00-17:20 – “Actin dynamics and mechanisms of regulation in oligodendrocyte biology”

Ana Seixas (i3S/IBMC, University of Porto, Portugal)

17:20-17:30 – Selected O.IV.1. – “The paradigm shift on remyelination failure problem – do mechanical properties play a crucial role?”

Eva Carvalho (i3S | U.Porto)

17:30-18:00 – “How to wrap the myelin: New approaches to understand myelin diseases”

Tanja Kuhlmann (Institut für Neuropathologie, Universitätsklinikum Münster, Germany)

18:00 | CLOSING

