



## 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

#### 09:00-10:00 REGISTRATION

#### 10:00 WELCOME

*Dora Brites* (iMed.Ulisboa, University of Lisbon, PT)

#### 10:15 PLENARY LECTURE | ROCHE

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

Invited Speaker: *Laurent Roybon* (Lund University, SE)

#### 11:00 COFFEE BREAK

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

Chair: *João Oliveira* (ICVS, School of Medicine, University of Minho, PT)

#### 11:30 "Skin derived astrocytes as a tool to study disease severity and drug responsiveness"

Invited Speaker: *Kathrin Meyer* (The Ohio State University, US)

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

*Claudia Valente* (IMM, University of Lisbon, PT)

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

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

#### 12:40 "The role of astrocytic calcium signaling in the cognitive function"

*Sónia Guerra-Gomes* (ICVS School of Medicine, University of Minho, PT)

#### 12:50 "Microglial and astrocytic pathology in a mouse model of Machado-Joseph disease"

*Ana Bela Campos* (ICVS School of Medicine, University of Minho, PT)

#### 13:00-14:00 LUNCH

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

Chair: **Francisco Ambrósio** (CIBB, University of Coimbra, PT)

**14:00** “Modeling microglial dysfunctions in AD”

Invited Speaker: **Tarja Malm** (University of Eastern Finland, FI)

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

**Raquel Santiago** (CIBB, University of Coimbra, PT)

**14:50** “Emerging roles of glial Striatal-Enriched Protein Tyrosine Phosphatase (STEP)”

**Graça Baltazar** (CICS, University of Beira Interior, PT)

**15:10** “TNF and glutamate dependent microglia reactivity under a psychoactive drug”

**Teresa Summavielle** (i3S/IBMC, University of Porto, PT)

**15:20** “IL-4 skews the microglial developmental program during cerebellar maturation”

**Joana Guedes** (CIBB, University of Coimbra, PT)

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

This session, besides allowing poster viewing, 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)

<p><b>Poster viewing</b>  <b>15:30 – 16:00</b>                  Presenting authors are kindly requested to be near their posters for informal discussion</p>	<p><b>Table 1 – Astrocytes</b></p> <p><i>Discussion Leaders:</i>                  João Oliveira and Graça Baltazar</p> <p><b>16:00 Ana Bernardo</b>, CIBB, UCoimbra  <b>16:15 Cátia Gomes</b>, iMed.Ulisboa  <b>16:30 Joana Gomes</b>, IMM, ULisboa</p>	<p><b>Table 2 – Microglia</b></p> <p><i>Discussion Leaders:</i>                  Francisco Ambrósio and Tarja Malm</p> <p><b>16:00 Gonçalo Garcia</b>, iMed.Ulisboa  <b>16:15 Ilyane Lima</b>, CEDOC-NMS  <b>16:30 Camila Cabral</b>, IBMC/i3S, UPorto</p>
	<p><b>Table 3 – Oligodendrocytes</b></p> <p><i>Discussion Leaders:</i>                  Ana Seixas and Tanja Kuhlmann</p> <p><b>16:00 Joana Mateus</b>, iMM, ULisboa  <b>16:15 Catarina Barros</b>, iMed.Ulisboa  <b>16:30 Rita Soares</b>, IMM, ULisboa</p>	<p><b>Table 4 – Glial-neuronal interactions</b></p> <p><i>Discussion Leaders:</i>                  Laurent Roybon and Ana Rita Vaz</p> <p><b>16:00 Haissa de Castro</b>, U. Lausanne  <b>16:15 Pedro Dionísio</b>, iMed.Ulisboa  <b>16:30 Catarina Sequeira</b>, iMed.Ulisboa</p>

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

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

**17:00** “Actin dynamics and mechanisms of regulation in oligodendrocyte biology”

**Ana Seixas** (i3S/IBMC, University of Porto, PT)

**17:20** “The paradigm shift on remyelination failure problem – do mechanical properties play a crucial role?”

**Eva Carvalho** (i3S/IBMC, University of Porto, PT)

**17:30** “How to wrap the myelin: New approaches to understand myelin diseases”

Invited Speaker: **Tanja Kuhlmann** (Neuropathology, University of Munster, DE)

**18:00 CLOSING**

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