



27th Meeting of the French Glial Cell Club

Oct 8th-11th 2024
Domaine du Lazaret, Sète, France

Tuesday, October 8th

- 13.00-16.30 Registration and participant installation
16.30-16.45 Welcome introduction

Workshop: the transcriptomic revolution to study glial cells

- 17.00-17.45 Talks from sponsors
17.45-18.00 **Student/Post-doc talk** (selected from abstracts)

- 18.30-19.30 **Plenary lecture I** (Chairs: Aude Panatier & Carole Escartin)
Baljit Khakh University of California (Los Angeles, USA)
Astrocytes: identity, form, function and roles in disease

Wednesday, October 9th

Symposium I: The complexity of astrocyte diversity: the tip of the iceberg

Chairs: Karine Loulier & David Ohayon

- 9.00-9.25 **Riccardo Bocchi** University of Geneva (Geneva, Switzerland)
Molecular mechanisms underlying astrocyte origins and diversity during corticogenesis
- 9.25-9.50 **David Ohayon** Center for Integrative Biology (Toulouse, France)
Astrocyte diversity: looking at a specific subpopulation, the Olig2-astrocytes
- 9.50-10.15 **Valentina Cerrato** Università di Torino (Orbassano, Italy)
A single cell atlas to unveil the diversity of mouse cerebellar astrocytes: insights into their molecular identities, development, and functions
- 10.15-10.30 **Student/Post-doc talk** (selected from abstracts)
- 10.30-11.00 Coffee Break

Symposium II: Neuronal activity and neuroglial interaction in (re)myelination

Chairs: Anne Desmazières & Rafael G. Almeida

- 11.00-11.25 **Rafael G. Almeida** University of Edinburgh (Edinburgh, UK)
Non-synaptic glutamate transfer between axons and oligodendrocytes regulates myelination in vivo
- 11.25-11.50 **Aiman S. Saab** University of Zurich (Zurich, Switzerland)
Axon-oligodendrocyte signaling and metabolic coupling
- 11.50-12.15 **Anne Desmazières** Paris Brain Institute (Paris, France)
Neuroglial interaction at the nodes of Ranvier in health and repair
- 12.15-12.30 **Student/Post-doc talk** (selected from abstracts)
- 12.30 Lunch
- 14.00-18.00 Networking afternoon – discovery of Sète
- 19.30 Dinner
- 20.30-22.00 **Poster session I**

Thursday, October 10th

Symposium III: New tools to modulate microglia and other brain immune cells

Chairs: Anne Roumier & Réjane Rua

- 9.00-9.25 **Juliette Van Steenwinckel** NeuroDiderot (Paris, France)
Alleviate microglia reactivity to improve neurodevelopmental disorders associated to neonatal Inflammation using nanoparticle-based delivery system.
- 9.25-9.50 **Anders Etzerodt** Aarhus University (Aarhus, Denmark)
Development of Lipid-based NanoParticles for targeted delivery of drugs or RNA to macrophages
- 9.50-10.15 **Alexis Bemelmans** LMN (Fontenay-aux-Roses, France)
The AAV toolbox for CNS gene transfer: contribution for the modeling of tauopathy mechanisms in mice
- 10.15-10.30 **Student/Post-doc talk** (selected from abstracts)
- 10.30-11.00 Coffee Break

Symposium IV: Brain-Cancer interactions

Chairs: Emmanuelle Huillard & Gilles Huberfeld

- 11.00-11.25 **Gilles Huberfeld**, IPNP (Paris, France)
Neuronal activity increases glioma growth while epilepsy improves survival: how to solve this paradox?
- 11.25-11.50 **Varun Venkataramani** University Hospital Heidelberg (Heidelberg, Germany)
Cancer Neuroscience of Brain Tumor Networks
- 11.50-12.15 **Simona Parrinello** University College London (London, UK)
Axonal injury initiates glioblastoma
- 12.15-12.30 **Student/Post-doc talk** (selected from abstracts)
- 12.30 Lunch
- 14.00-15.30 **Poster session II**
- 15.30-17.30 Free time and on-site activities
- 17.30 **Plenary lecture II** (*Chairs: Brahim Nait Oumesmar & Jean-Marie Mangin*)
Anna Williams, University of Edinburgh (Edinburgh, UK)
Understanding and manipulating oligodendrocyte heterogeneity to help neurodegenerative diseases
- 19.00 Aperitif and "Thursday Night Fever"

Friday, October 11th

Symposium V: Sleep regulation by glial cells – sponsored by SFRMS

Chair: Armelle Rancillac

- 9.30-9.55 **Sha Liu** VIB-KU Leuven (Leuven, Belgium)
Single-cell transcriptomics reveals that glial cells integrate homeostatic and circadian processes to drive sleep-wake cycles
- 9.55-10.20 **Armelle Rancillac** CIRB, Collège de France (Paris, France)
Role of astrocytic morphological plasticity in sleep regulation
- 10.20-10.45 **Olivier Pascual** MeLis, Université Claude Bernard I (Lyon, France)
Microglia morphodynamic in sleep and memory
- 10.45-11.00 **Student/Post-doc talk** (selected from abstracts)
- 11.00-11.30 Coffee break

11.30- 12.15	Discussion, General Assembly and Award ceremony
12.30	Farewell Lunch
14.00	End of the meeting