



## 27th Meeting of the French Glial Cell Club

Oct 8<sup>th</sup>-11<sup>th</sup> 2024  
Domaine du Lazaret, Sète, France

Tuesday, October 8th

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13.00-16.00 Registration and luggage storage

15.30-16.00 Coffee Break

16.00-16.15 Welcome introduction

### Workshop: New molecular approaches to study glial cells

Chairs: Hélène Hirbec & Sarah Mountadem

Talks from sponsors:

16.15-16.25 **Olivier Raineteau** for 10x Genomics

*Analyzing the long-term consequences of early brain injuries by large scale snRNA-Seq profiling*

16.25-16.35 **William Amoyal** (Vizgen)

*The MERSCOPE Platform: Enabling full custom 1000-Plex multiomic spatial analysis at high throughput in Neuroscience*

16.35-16.45 **Diego Guerrera** (Biotechne)

*Accelerating Spatial Biology with COMET™*

Short Talks from Young Researchers

16.45-17.00 **Short talk: Johanne Gambi** LNCA (Strasbourg, France)

*Astrocytic regulations (transcriptome/epigenome) during memory formation: impact of Tau pathology*

17.00-17.15 **Short talk: Paola Nobili** IGF University of Montpellier (Montpellier, France)

*Shedding light on epilepsy with an ATP biosensor uncovering neuroglial connections and ATP dynamics*

17.15-18.15 **Plenary lecture I** (Chairs: Aude Panatier & Carole Escartin)

**Inbal Goshen** The Hebrew University (Jerusalem, Israel)

*Astrocytes in High Brain Function*

17.15-18.15 Participant installation

19.00 Welcome drinks

19.30 Dinner

21.00 Networking evening

Wednesday, October 9th

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### 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 **Short talk: Christopher Salmon** McGill University (Montreal, Canada)  
*Organizing principles of astrocyte nanoarchitecture and their disruption in the APPPS1 Alzheimer's model*
- 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 **Short talk: Mary-Amélie Masson** ICM (Paris, France)  
*A role for the Post-Synaptic Density protein PSD-95 in CNS myelination*
- 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

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### 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 **Short talk: Giampaolo Milior** CIRB, Collège de France (Paris, France)  
*Microglial cells in the human brain: specific motilities, phenotypes and neuronal interactions in development and epilepsy*
- 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 **Short talk: Nina Pottier** ICM (Paris, France)  
*Functional consequences of IDH1 mutation on oligodendrogloma cells of origin and microglia*
- 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

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

Chair: Armelle Rancillac & Olivier Pascual

- 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 **Short talk: Rafik Dali** University of Lausanne (Lausanne, Switzerland)  
*Tanycyte-derived extracellular vesicle annexin A1 modulates microglia and neuronal functions to control energy balance*
- 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

Co-organized with :



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