



Club des
Cellules Gliales

26th Meeting of the French Glial Cell Club

GLIAL CELLS ON THE BEACH

Oct 12-14th 2022
Domaine du Lazaret, Sète, France

Wednesday, October 12th

13:30-15:00 Registration and welcome introduction

15:00-16:30 **Symposium I: Gliovascular interactions in health and disease**

Chairs: A-C Boulay, A Sharif

15:00-15:25 **Martine Cohen-Salmon**, CIRB, Collège de France (Paris, France)
Astroglial mechanisms regulating vascular functions

15:25-15:50 **Candice Chapouly**, Biology of Cardiovascular Diseases (Bordeaux, France)
The ambivalent response of reactive astrocytes to BBB breakdown

15:50-16:15 **Monica Imbernon**, LiNCog (Lille, France)
Tanycytic involvement in metabolic diseases

16:15-16:30 **Barbara Delaunay-Piednoir**, CIRB, Collège de France (Paris, France)
Role of astrocytic mitochondria in the development of the gliovascular interface

16:30-17:00 Break

17:00-19:00 Aperitif and poster session I

19:00-21:00 Dinner

21:00-22:00 **Plenary lecture**

Chair: A Panatier

Richard Robitaille, Université de Montréal (Canada)

Glial cells at the neuromuscular junction as therapeutic target in ALS

Thursday, October 13th

09:00-10:30 **Symposium II: New approaches to study neuroglial interactions**

Chairs: J-M Mangin, B Nait-Oumesmar

09:00-09:25 **Tim Czopka**, Edinburgh University (Edinburgh, UK)
Roles for Oligodendrocyte Precursor Cells in Shaping the Form and Function of Neural Circuits

09:25-09:50 **Delphine Bohl**, Paris Brain Institute (Paris, France)
Roles of macrophages and microglial cells towards motor neuron degeneration in ALS

09:50-10:15 **Franck Debarbieux**, Institut des Neurosciences de la Timone (Marseille, France)
Dynamic intravital imaging highlights infiltrated mDCs as regulator of microglial state and neuronal plasticity

10:15-10:30 **Melody Labarchede**, Institut des Maladies Neurodégénératives (Bordeaux, France)
One and two photon imaging of myelin sheath voltage

10:30-10:35 ACD/Bio-Techne presentation

10:35-10:40 Vizgen presentation

10:40-11:00 Coffee break

11:00-12:30 **Symposium III: Circuit-specific regulation of social behavior by astrocytes**

Chairs: L Ben Haim, A Charlet

- 11:00-11:25 **Nathalie Rouach**, CIRB, Collège de France (Paris, France)
A role for astrocytes in maternal behavior
- 11:25-11:50 **Giovanni Marsicano**, Neurocentre Magendie (Bordeaux, France)
Cannabinoid control of astrocyte functions
- 11:50-12:15 **Francesco Papaleo**, Istituto Italiano di Tecnologia (Genova, Italy)
Cortical astrocytes modulate emotion discrimination through the cannabinoid system
- 12:15-12:30 **Agnes Chaperon** Laboratory of Gene Regulation and Adaptive Behavior, University of Sorbonne (Paris France).
Glucocorticoid receptors in astrocytes regulate alpha-synuclein pathological actions impacting motor and non-motor symptomology of Parkinson's disease
- 12:30-14:00 Lunch
- 14:00-17:00 Free afternoon with on-site activity (45-min boat cruise)
- 17:00-18:30 Symposium IV: Homeostatic functions of microglia in CNS physiology**
Chairs: E Audinat, A Nadjar
- 17:00-17:25 **Alexandre Benani**, Centre des Sciences du Goût et de l'Alimentation (Dijon, France)
Toward a link between neuroglial plasticity and satiety
- 17:25-17:50 **Alain Bessis**, Institut de Biologie de l'ENS (Paris, France)
Microglial TNF α control inhibitory synaptic plasticity and sleep
- 17:50-18:15 **Amanda Sierra**, Achucarro Basque Center for Neuroscience (Leioa, Spain)
Not just corpse removal: How microglial phagocytosis maintains tissue homeostasis
- 18:15-18:30 **Cécile Bridance**, Institut de Biologie de l'ENS (Paris, France)
Microglial brain colonization: local crosstalk with the neural environment
- 18:30-19:00 Break
- 19:00-21:00 Aperitif/ Buffet Sétois and poster session II

Friday, October 14th

- 09:00-10:00 Plenary lecture**
Chair: M Thion
Veronique Miron, University of Toronto (Canada)
The disappearing act: how microglia influence myelin health
- 10:00-11:30 Symposium V: Glial cells are symphonic metabolic conductors through lactate shuttles**
Chairs: A-K Bouzier-Sore, T Daubon
- 10:00-10:25 **Luc Pellerin**, Poitiers University (Poitiers, France)
Astrocyte-Neuron Lactate Shuttle: Importance of Monocarboxylate Transporters to sustain behavioral performances
- 10:25-10:50 **Anne-Karine Bouzier-Sore**, CRMSB (Bordeaux, France)
Astrocyte-Neuron Lactate Shuttle: from its importance for the BOLD fMRI signal to its neuroprotective properties
- 10:50-11:15 **Thomas Daubon**, IBGC (Bordeaux, France)
Lactate shuttles in glioblastoma and its microenvironment
- 11:15-11:30 **Camille Allard** Neurocentre Magendie (Bordeaux, France)
Role of mTORC1 signaling in microglia during diet-induced obesity.
- 11:30-12:15 Prize announcements and General Assembly
- 12:15-14:00 Farewell lunch
- 14:00 End of the meeting