

French Glial Cell Club virtual meeting

18-22 Oct. 2021

Monday 18th Oct 2021. 2:00pm - 5:30pm

Welcome (B. Nait Oumesmar)

Opening plenary lectures (Chairs H. Hirbec; N. Tricaud; M.C. Angulo)

David Lyons (University of Edinburgh, UK): Studying myelinated axons in vivo using zebrafish

Miltenyi presentation (C. Revel)

Symposium 1:

Glial Cells in brain development (Chairs E. Huillard; M.C. Angulo)

- **Alice Meunier** (IBENS, Paris): Diverting the mitotic oscillator to differentiate : the example of ependymal cells
- **David Ohayon** (CBD, Toulouse): OLIG2+ cells development in the spinal cord
- **Karine Loulier** (INM, Montpellier): Development and heterogeneity of cortical astrocytes
- **Selected presentation from a young researcher (doc/postdoc)**

Tuesday 19th Oct 2021. 2:00pm - 5:30pm

Symposium 2:

Imaging tools to study the dynamics of glial cells (Chairs O. Pascual; A.K. Bouzier-Sore)

- **Anne Desmazières** (Pitié-Salpêtrière, Paris): Neuro-glial interactions at the nodes of Ranvier in the central nervous system
- **Arne Battefeld** (IMN, Bordeaux): Electrophysiological recording and imaging of oligodendrocytes
- **Lamia Bouslama** (ICM, Paris) : Actin cytoskeleton dynamics in myelination control
- **Selected presentation from a young researcher (doc/postdoc)**

Flash talks by students (Chairs K. Combet; M. Bigotte), followed by Poster session #1

Wednesday 20th Oct 2021. 2:00pm - 5:30pm

Symposium 3:

Glial cells in the control of feeding and metabolism (Chairs A. Sharif; I. Denis)

- **Kate Ellacott** (Exeter, UK): Astrocytes, brainstem and food intake
- **Cristina Garcia-Caceres** (Munich, Germany): Hypothalamic astrocytes in the neuroendocrine control of metabolism
- **Daniela Cota** (Magendie, Bordeaux): Glial activation in the control of feeding and energy homeostasis
- **Manon Duquenne** (LilNCog, Lille; post-doc): Tanycytes, leptin transport, energy homeostasis & obesity
- **Céline Cansell** (CSGA, Dijon ; post-doc): Postprandial hyperglycemia stimulates neuroglial plasticity in hypothalamic POMC neurons after a balanced meal

“Assemblée Générale” of the French Glial Cell Club

Thursday 21st Oct 2021. 2:00pm - 5:30pm

Symposium 4

Glial cells in brain diseases (Chairs T. Amédée; C. Escartin)

- **Séverine Boillée** (ICM, Paris): Modifying macrophages at the periphery has the capacity to modify microglial reactivity and to extend ALS survival
- **Emmanuel Nivet** (INP, Marseille): Human iPSC-astrocytes reveal a pro-inflammatory axis under the control of the APOE4 genetic risk factor in Alzheimer's disease
- **Manuel Valiente** (CNIO, Madrid, Espagne): Reactive astrocytes and brain metastasis
- **Selected presentation from a young researcher (doc/postdoc)**

Flash talks by students (Chairs K. Combet; M. Bigotte), followed by Poster session #2

Friday 22nd Oct 2021. 1:30pm - 5:30pm

Symposium 5

Glial cells in CNS injury and regeneration (Chairs P. Durbec; B. Nait Oumesmar)

- **Florence Perrin** (MMDN, Montpellier): Post-injury decrease in microglia proliferation improves recovery after spinal cord injury in rodents and non-human primates
- **Roland Liblau** (Centre de Physiopathologie de Toulouse Purpan, Toulouse): Immune cell activation and CNS injury in models of neuroinflammatory diseases
- **Vanja Tepavcevic** (Achucarro, Basque Center for Neuroscience, Bilbao, Spain): Lactate metabolism in myelin maintenance and regeneration
- **Selected presentation from a young researcher (doc/postdoc)**

Closing plenary lecture (Chairs H. Hirbec; N. Tricaud; C. Escartin)

- **Magdalena Götz** (Helmholz Center, Institute Stem Cell Research, Munich, Germany): Heterogeneity of astrocytes within and between brain regions

Award of Miltyeni poster & NeurATRIS prize.

Closing remarks.