

12-13 May 2022 — SYMPOSIUM

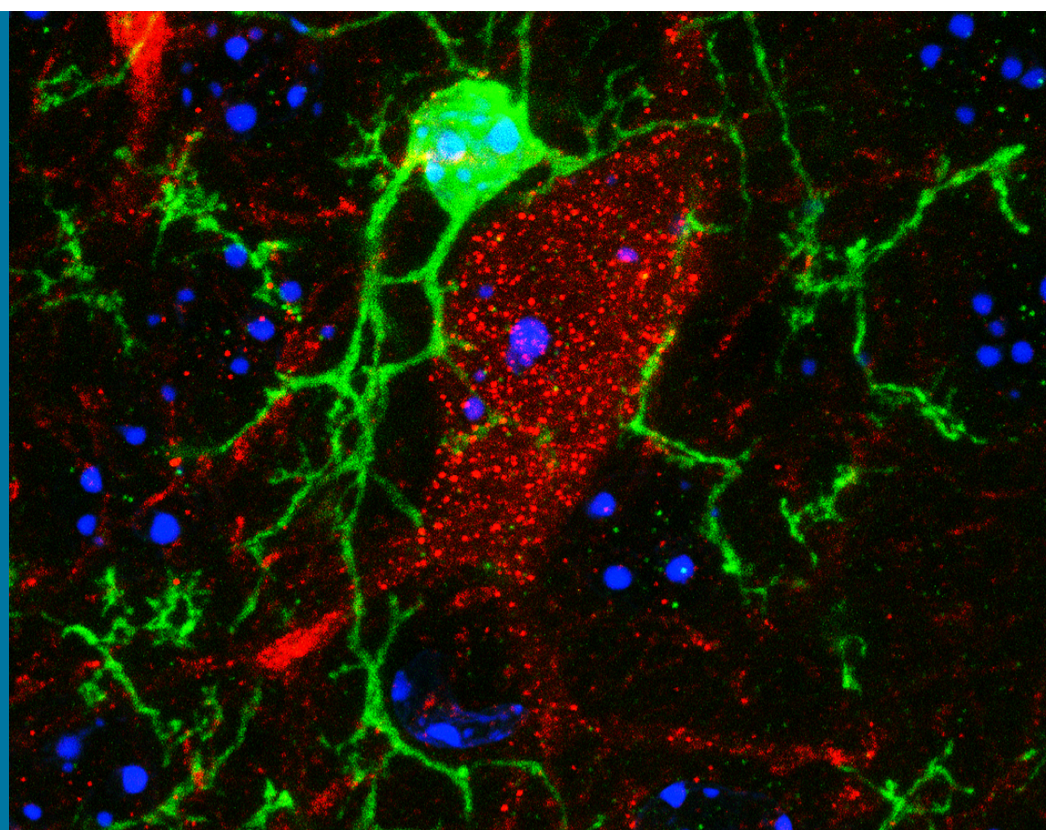
Amphithéâtre Maurice Halbwachs

# From Development to Neurodegeneration: Roles of Microglia and Other Immune Brain Cells

COLLÈGE  
DE FRANCE  
—1530—

CHAIRE NEUROBIOLOGIE  
ET IMMUNITÉ

Organisation :  
Sonia Garel



## Thursday May 12<sup>th</sup>

### 09h00 Introduction

09h15 Melanie Greter (Zurich University, Switzerland)

#### Regulation and Function of Brain Macrophages

09h50 Florent Ginhoux (IGR, Villejuif, France)

#### Heterogeneity of Myeloid Cells in the CNS

10h25 Réjane Rua (CIML, Marseille, France)

#### When Brain Borders Take Center Stage: Role of Meningeal Macrophages in Neuroinflammation and Neurocognition

11h00 Break

11h25 Rosa Paolicelli (UNIL, Lausanne, Switzerland)

#### Microglia-Mediated Synapse Remodeling in Brain Development and Disease

11h55 Amanda Sierra (Achucarro Basque Center for Neuroscience, Bilbao, Spain)

#### Not Just Corpse Removal: How Microglial Phagocytosis Maintains Brain Tissue Homeostasis

12h30 Lunch

14h00 Susanne Wolf (Charité University, Berlin, Germany)

#### Sexual Dimorphism in Microglia Derived from a Monogenetic Mouse Model of Autism Spectrum Disorder

14h35 Pierre Gressens (Robert Debré Hospital, Inserm, Paris, France)

#### Impact of Neuroinflammation on Perinatal Brain Development: Role of Microglia and Other Immune Cells

15h10 Break

15h40 Bart Eggen (University of Groningen, Netherlands)

#### Microglia in Human CNS Development and Disease

16h15 Michela Matteoli (Humanitas University, Milan, Italy)

#### Microglial TREM2 in the Shaping of Brain Synapses and Circuit

16h50 Alain Bessis (IBENS, Paris, France)

#### Microglial TNF $\alpha$ Controls Inhibitory Synapse Plasticity and Sleep

## Friday May 13<sup>th</sup>

09h15 Valérie Wittamer (IRIBHM, ULB, Bruxelles)

#### Cellular and Molecular Mechanisms Regulating Microglia Cell Fate in Vivo: Insights from the Zebrafish Model

09h50 Anne Roumier (IFM, Paris, France)

#### Regulation of Microglia by Serotonin: Impact on Brain Circuits Refinement and Behavior

10h25 Diego Gomez-Nicola (University of Southampton, UK)

#### Understanding Microglia from Development to Age-Related Neurological Disorders

11h00 Break

11h25 Anne Desmazières (ICM, Paris, France)

#### Neuro-Microglial Interaction at the Node of Ranvier in Health and Disease

11h55 Etienne Audinat (IGF, Montpellier, France)

#### Microglia-Astrocyte Signaling Responsible for Increased Excitatory Synaptic Transmission during Epileptogenesis

12h40 Lunch

14h00 Steffen Jung (Weizmann Institute, Rehovot, Israel)

#### Microglia - T Cell Interactions in Autoimmune CNS Pathology

14h35 Elvira Mass (Limes Institute, Bonn, Germany)

#### Decoding the Immune Response to Ischemic Stroke upon Aging

15h10 Séverine Boillée (ICM, Paris, France)

#### Microglia and Peripheral Macrophages Contribution to ALS Progression and Neurodegeneration

15h45 Concluding Remarks

Image : Interaction microglie et neurone © Sonia Garel

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