

# Brain, Behavior, & Beyond: New Horizons in Aging and Neurodegenerative Diseases

In Partnership With Paris-Saclay Institute of Neuroscience

May 28–29, 2026

Hybrid: Paris-Saclay, France & Online

## ABOUT THE SYMPOSIA

Join leading experts as they reveal how advanced imaging, fluid biomarkers, and omics technologies—empowered by AI—are revolutionizing our understanding of neurodegeneration and cognitive aging. Discover emerging molecular and cellular players in aging research and explore how biology, lifestyle, and innovation can drive new strategies to sustain cognitive health across the lifespan.

### DAY 1 MAY 28, 2026 · 9:15–18:30

#### Session 1: Neurodegeneration & Cognitive decline – Advancing imaging and fluid biomarkers through AI and Omics integration

**Charlotte Teunissen** · Vrije Universiteit, Amsterdam, Netherlands

Development of clinically valuable biomarkers through advanced proteomics analyses

**Cyril Poupon & Jean-François Mangin** · NeuroSpin, Saclay, France

Leveraging AI to invent new neuroimaging biomarkers for neurodegenerative diseases

**Rinki Ratnapriya** · Baylor College of Medicine, Houston, USA

Decoding the role of microglia in neurodegenerative diseases using machine learning and functional genomics

#### Short Talks

*Lunch and Poster Session*

#### Session 2: New players in Aging & Neurodegeneration (Part 1)

**Erik Musiek** · Washington University School of Medicine, St. Louis, USA

Sleep and circadian rhythms in Alzheimer's disease pathogenesis

#### Short Talks

**Rik van der Kant** · Amsterdam University Medical Center, Netherlands

Lipids in Alzheimer's disease

*Gala Dinner*

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## DAY 2 May 29, 2026 · 9:00–18:30

### Session 2: New players in Aging & Neurodegeneration (Part 2)

**Blanca Díaz Castro** · University of Edinburgh, Scotland

Molecular alterations of the vasculature-astrocyte interactions in dementia

**Miranda E. Orr** · Washington University School of Medicine, St. Louis, USA

Cellular senescence as a mechanistic driver and therapeutic target in Alzheimer's disease

### Session 3: Unraveling and treating the Drivers of Aging & Neurodegeneration: Biology, Lifestyle, and Beyond

**Viviana Gradinaru** · California Institute of Technology, USA

Understanding defense mechanisms and transport across the BBB and move towards targeted, noninvasive study and repair of the brain

#### Short Talk

*Lunch and Poster Session*

**Nicole Déglon** · CHUV, Lausanne, Switzerland

CNS gene therapy: From scientific breakthroughs to treatment

**Jérôme Roger** · NeuroPSI, Saclay, France

CRX gene-based therapy: A multi-indication strategy for inherited retinal degenerations

#### Short Talks

**Tara Walker** · University of Queensland, Australia

Platelet-derived factors rejuvenate the ageing and degenerating brain

**Cécilia Samieri** · Bordeaux Population Health Research, Bordeaux, France

The exposome of brain aging and dementia

#### DEADLINES

- Abstract submission & in-person attendance:  
**April 20, 12:00AM CET**
- In-person attendance only:  
**May 10**
- Remote attendance:  
**May 25**

#### EVENT INFORMATION

- **Venue:**  
Campus CEA Saclay,  
151 Route de la Rotonde, Bâtiment 151,  
91400 Saclay, France
- **Optional dinner** on Day 1
- **Partial support available** for selected short talks