

AGING OF MEMORY FUNCTIONS: WHERE ARE WE NOW?

WEDNESDAY, SEPTEMBER 26TH

8:30-9:00 REGISTRATION

9:00-9:15 INTRODUCTION by Christophe Mulle and Nora Abrous

SESSION 1 HIPPOCAMPUS AND MEMORY FUNCTION

Chairs: Aline Desmedt, Christelle Robert

In tribute to Howard Eichenbaum:

9:15-10:00 **Neal J Cohen** - University of Illinois, Urbana-Champaign, USA
Relational memory theory

10:00-10:30 **Aline Marighetto** - Bordeaux Neurocampus, France
A model of age-related decline of declarative memory based on the relational theory : identification of temporal binding as a key process

10:30-11:00 Coffee break and posters

11:00-11:45 **Carol Barnes** - University of Arizona, Tucson, USA
Normal lifespan changes in brain circuits critical for memory

11:45-12:15 **Chantal Mathis** - University of Strasbourg, France
Separating the similar in mouse models of aging and Alzheimer's disease

12:15-14:30 Lunch time and posters

SESSION 2 HIPPOCAMPUS AND MEMORY FUNCTION : NEURAL MECHANISMS

Chairs: Mylène Potier, Nicole Etchamendy

14:30-15:15 **John Disterhoft** - Northwestern University, Chicago, USA
Cellular mechanisms of age-associated learning deficits in hippocampus and lateral entorhinal cortex

15:15-15:45 **Peter Rapp** - National Institute on Aging, Baltimore, USA
Neurocognitive aging: synapses to neural networks

15:45-16:15 Coffee break and posters

16:15-16:45 **Audrey Branch** - Johns Hopkins University, Baltimore, USA
Individual differences in aging outcomes: contributions of neurocognitive aging to risk and resilience

16:45-17:15 **Michael Yassa** - University of California, Irvine, USA
Computations supporting episodic memory in aging and Alzheimer's disease

18:00-20:00 Wine and cheese around the posters

THURSDAY, SEPTEMBER 27TH

SESSION 3 INDIVIDUAL DIFFERENCES, SUCCESSFUL AGING

Chairs: Ernesto Sanz-Arigita, Daniel Béraçochea

9:15-10:00 **Lars Nyberg** - Umeå University, Sweden
Memory aging and brain maintenance

10:00-10:30 **Hélène Amieva** - University of Bordeaux, France
Concepts of reserve and frailty in cognitive aging: data from epidemiology

10:30-11:00 Coffee break and posters

11:00-11:30 **Anders Fjell** - University of Oslo, Norway
Role of sleep for memory consolidation in aging

11:30-12:00 **Thomas Wolbers** - German Center for Neurodegenerative Diseases, Magdeburg, Germany
What neural mechanisms can explain navigational decline in old age?

12:00-14:00 Lunch time and posters

SESSION 4 ADULT HIPPOCAMPAL NEUROGENESIS

Chairs: Muriel Koehl, Joachim Mazère

- 14:00-14:30 **Nora Abrous** - Bordeaux Neurocampus, France
Individual differences in adult neurogenesis and memory
- 14:30-15:00 **Sandrine Thuret** - King's College London, England
Neural stem cells as biomarkers of cognitive aging and dementia
- 15:00-15:30 **Embla Steiner** - Karolinska Institute, Solna, Sweden
Adult Neurogenesis in Human
- 15:30-16:00 Coffee break and posters
- 16:00-18:00 **SELECTED TALKS**

Chairs: Olivier Nicole, Klaus Petry

- Pascal Bielefeld** - University of Amsterdam, The Netherlands
Circadian Glucocorticoid Oscillations Preserve a Population of Adult Hippocampal Neural Stem Cells in the Aging Brain
- Rodrigo Cunha** - University of Coimbra, Portugal
Adenosine neuromodulation is imbalanced in the aging hippocampus - restoring memory performance by blocking adenosine A2A receptors
- Kasia Radwanska** - Nencki Institute, Warsaw, Poland
CaMKII-dependent elimination of PSD-95 with learning is impaired in aged animals
- Beatriz Rodriguez-Grande** - Bordeaux Neurocampus, France
A single mild traumatic brain injury at juvenile age accelerates brain aging phenotype
- Vincent Planche** - Bordeaux Neurocampus, France
Evolution of hippocampal-to-cortical volume ratio during aging predicts long-term cognitive decline and incident Alzheimer's disease
- Aniket Mishra** - Bordeaux Population Health Research Center, France
Genetic link between dementia and regional sulci morphology
- Adrien Folville** - University of Liege, Belgium
Older adults do not always rely on the amount of episodic details when considering the subjective vividness of their memories
- Christine Bastin** - University of Liege, Belgium
A manipulation of processing fluency to attenuate age-related differences in recognition memory
- 19:30-2:00 Gala dinner

FRIDAY, SEPTEMBER 28TH

SESSION 5 LOOKING BEYOND THE HIPPOCAMPUS

Chairs: Jacques Micheau, Ernesto Sanz-Arigita

- 9:30-10:15 **Gaël Chételat** - University of Caen-Normandie, France
From reserve to preventive interventions - example of the European project MEDITAGEING
- 10:15-10:45 **Gwenaëlle Catheline** - Bordeaux Neurocampus, France
Cognitive decline in aging and multimodal imaging
- 10:45-11:15 Coffee break and posters
- 11:15-11:45 **Emrah Duezel** - University of Otto Von Guericke Magdeburg, Germany
Specific associations of CSF tau and amyloid levels with object and scene memory in old age and preclinical AD : data from the DELCODE study
- 11:45-12:15 **Laure Rondi-Reig** - Institute of Biology Paris Seine, France
How cerebellum can impact hippocampal activity
- 12:15-12:35 **CLOSING REMARKS** by Nora Abrous
- 12:35-14:30 Lunch time