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# ***Aging of memory functions: Where are we now?***

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**Tuesday September 25<sup>th</sup> 2018**

Communication to French public Prof JF Dartigues, Prof F Eustache, Prof R Jaffard

Welcome dinner for the speakers

**Wednesday September 26<sup>th</sup> 2018**

9h00- 9h15 **Opening ceremony**

## **Session 1 «Hippocampus and memory function»**

*In tribute to Howard Eichenbaum:*

9h15-10h00 Neal J Cohen (USA) Relational memory theory

10h00-10h30 Aline Marighetto (France) A model of age-related decline of declarative memory based on the relational theory: identification of temporal binding as a key process

### **10h30-11h00 Coffee break and posters**

11h00-11h45 Carol Barnes (USA) Normal lifespan changes in brain circuits critical for memory

11h45-12h15 Chantal Mathis (France) Separating the similar in mouse models of aging and Alzheimer's disease

### **12h30-14:30 Lunch time and posters**

## **Session 2: «Hippocampus and memory function: neural mechanisms»**

14h30-15h15 John Disterhoft (USA) Cellular mechanisms of age-associated learning deficits in hippocampus and lateral entorhinal cortex

15h15-15h45 Peter Rapp (USA) Neurocognitive aging: synapses to neural networks

### **15h45-16h15 Coffee break and posters**

16h15-16h45 Thomas Wolbers (Germany) What neural mechanisms can explain navigational decline in old age?

16h45-17h15 Michael Yassa (USA) Computations supporting episodic memory in aging and Alzheimer's disease

**Wine and cheese around the posters**

## Thursday September 27<sup>h</sup> 2018

### Session 3 «Individual differences, successful aging»

9h00-10h45 Michaela Gallagher (USA) Individual -differences in aging outcomes: contributions of neurocognitive aging to risk and resilience

10h45-11h15 Lars Nyberg (Sweden) Memory aging and brain maintenance

#### **11h15-11h45 Coffee break and posters**

11h45-12h15 Anders Fjell (Norway) Role of sleep for memory consolidation in aging

12h15-12h45 H el ene Amieva (France) Concepts of reserve and frailty in cognitive aging: data from epidemiology

#### **12h45- 14:45 Lunch time and posters**

### Session 4 «Adult hippocampal neurogenesis»

14h45-15h30 Nora Abrous (France) Individual differences in adult neurogenesis and memory

15h30-16h0 Sandrine Thuret (UK) Neural stem cells as biomarkers of cognitive aging and dementia

16h00-16h30 Embla Steiner (Sweden) Adult Neurogenesis in Human

#### **16h30-17h00 Coffee break and posters**

**17:00- 18:30 selected talks**

**Gala dinner**

## Friday September 28<sup>h</sup> 2018

### Session 5 «Looking beyond the hippocampus»

9h00-9h45 Ga el Ch etelat (France) From reserve to preventive interventions – example of the European project MEDITAGEING

9h45-10h15 Gwena elle Catheline (France) Cognitive decline in aging and multimodal imaging

10h15-10h45 Laure Rondi-Reig (France) How cerebellum can impact hippocampal activity

#### **10h45-11h15 Coffee break and posters**

11h15-11h45 Emrah D uezel (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

11h45-12:15 Mara Mather (USA) How the locus coeruleus modulates selective processing

**Concluding remarks**