

FENS-HERTIE WINTER SCHOOL 2016

"MEMORY MECHANISMS IN HUMANS: FROM PHYSIOLOGY TO BEHAVIOR AND COMPUTATIONAL MODELS"

11-17 December 2016

Obergurgl University Center, Austria

Scientific Chairs: Prof. Rodrigo Quian Quiroga and Prof. Simon Thorpe

Programme

Sunday 11th December

17:30 - 18:30 Registration

18:00 - 19:00 **Welcome Drink**

19:00 - 20:30 *Dinner*

20:30 - 21:30 School introduction by Prof. Rodrigo Quian Quiroga and Prof. Simon Thorpe

21:30 - 23:00 Students introductions

Monday 12th December

09:00 – 10:00 Prof. **Yadin Dudai** – Weizmann Institute, Israel on “The Encoding and Consolidation of Human Episodic Memory: The first seconds, and the years thereafter”

10:00 - 10:30 *Coffee break*

10:30 - 11:30 Prof. **Yadin Dudai**

11:30 - 12:30 Tutorial on electrophysiology data analysis by Prof. Rodrigo Quian Quiroga – University of Leicester, UK

12:30 - 16:30 *Lunch – Free time*

- 16:30 - 17:30 Prof. **Rodrigo Quian Quiroga** – University of Leicester, UK on “Concept cells and their role in memory”
- 17:30 - 18:00 *Coffee break*
- 18:00 - 19:00 Prof. **Rodrigo Quian Quiroga**
- 19:00 - 20:30 *Dinner*
- 20:30 - 22:00 Poster session I

Tuesday 13th December

- 09:00 - 10:00 Prof. **Haim Sompolinsky** – Hebrew University, Israel on “Theory and Models of Memory in Distributed Neuronal Circuits”
- 10:00 - 10:30 *Coffee break*
- 10:30 - 11:30 Prof. **Haim Sompolinsky**
- 11:30 - 12:30 Prof. **Simon Thorpe** – CNRS, CerCo, Toulouse University, UMR 5549, France on “How can the brain store memories that last a lifetime?” - Part 1
- 12:30 - 16:30 *Lunch – Free time*
- 16:30 - 17:30 Prof. **Sylvia Wirth** – University of Lyon, France on “Basis of the memory engram: neurophysiology of associative memories in the non-human primate”
- 17:30 - 18:00 *Coffee break*
- 18:00 - 19:00 Prof. **Sylvia Wirth**
- 19:00 - 20:30 *Dinner*
- 20:30 - 22:00 Roundtable/discussion on previous lectures I

Wednesday 14th December

- 09:00 - 10:00 Prof. **Edmund Rolls** – Oxford University, UK on “The operation of memory systems in the cortex”
- 10:00 - 10:30 *Coffee break*
- 10:30 - 11:30 Prof. **Edmund Rolls**

11:30 - 12:30 Prof. **Simon Thorpe** – CNRS, CerCo, Toulouse University, UMR 5549, France on “How can the brain store memories that last a lifetime?” - Part 2

12:30 - 16:30 *Lunch – Free time*

16:30 - 17:30 Prof. **Christian Döller** – Donders Institute, The Netherlands on “Mental maps for memories and space”

17:30 - 18:00 *Coffee break*

18:00 - 19:00 Prof. **Christian Döller**

19:00 - 20:30 *Dinner*

20:30 - 22:00 Poster session II

Thursday 15th December

09:00 - 10:00 Prof. **Roberto Cabeza** – Duke University, USA on “Episodic memory networks and representations”

10:00 - 10:30 *Coffee break*

10:30 - 11:30 Prof. **Roberto Cabeza**

11:30 - 12:30 Tutorial on Modelling by Prof. Simon Thorpe – CNRS, CerCo, Toulouse University, UMR 5549, France

12:30 - 16:30 *Lunch – Free time*

16:30 - 17:30 Prof. **Guillen Fernandez** – Donders Institute, The Netherlands on “Long-Term Memory Formation and Stabilization in the Hippocampus and Beyond”

17:30 - 18:00 *Coffee break*

18:00 - 19:00 Prof. **Guillen Fernandez**

19:00 - 20:30 *Dinner*

20:30 - 22:00 Roundtable/discussion on previous lectures II

Friday 16th December

09:00 - 10:00 Prof. **Alessandro Treves** – SISSA, Italy on “Memory beyond outer space”

10:00 - 10:30 *Coffee break*

10:30 - 11:30 Prof. **Alessandro Treves**

11:30 - 12:00 Wrap-up, feedback session

12:00 - 16:00 *Lunch – Free time*

16:00 - 17:00 Prof. **Andreas Tolias** – Baylor College of Medicine, USA on “Learning and inference in brains and machines”

17:30 - 17:30 *Coffee break*

17:30 - 18:30 Prof. **Andreas Tolias**

18:30 - 19:00 Wrap-up, feedback session

19:00 - 23:00 *Dinner and Goodbye Party*

Saturday 17th December

Breakfast and departure