

Neuroscience Workshop Saclay – 2017

Neural Circuits and Behavior: from cells to connectivity and function

Thursday June 8, 2017

09:00 – 09:10 Participants Welcome

Morning Sessions

Chair: Nicolas Giret

09:10 - 10:00 **Keynote lecture: Andreas Nieder** (University of Tübingen, Germany)
Cellular Correlates of Corvid Cognition

10:00 - 10:15 **Short talk 1: Pedro Pinheiro-Chagas** (NeuroSpin, Gif-sur-Yvette)
Brain mechanisms of the arithmetic problem-size effect: a crucial role for ventral temporal cortex

10:15 - 10:30 **Short talk 2: Laetitia Grabot** (NeuroSpin, Gif-sur-Yvette)
Time order is a psychological bias

10:30 - 11:00 **Coffee Break**

Chair: Julien Bouvier

11:00 - 11:50 **Keynote lecture: Ian Wickersham** (MIT, USA)
Engineering methods for deciphering circuit organization and function.

11:50 - 12:05 **Short talk 3: Arturo Torres Herrera** (Institut de Biologie Paris-Seine)
Electrophysiological evidences for cerebello-hippocampal interactions

12:05 - 13:45 **Lunch buffet (CNRS Restaurant)**

Afternoon Sessions

Chair: Divya Ail

13:45 - 14:35 **Keynote lecture: Fekrije Selimi** (CIRB, Paris, France)
Synapse Identity: focus on complement-related proteins

14:35 - 14:50 **Short talk 4: Solal Bloch** (Neuro-PSI, Gif-sur-Yvette)
Mesencephalic origin of the preglomerular nucleus and the inferior lobe of the “hypothalamus” in zebrafish

14:50 - 15:00 **Poster blitz session 1**

15:00 - 16:30 **Coffee break & Poster Session 1**

Chair: Mehdi Rahim / Abhishek Chatterjee

16:30 - 17:20 **Keynote lecture: Russell Poldrack** (Stanford University, USA)
The dynamics of human brain function

17:20 - 18:10 **Keynote lecture: Stephen Goodwin** (University of Oxford, UK)
Genetic dissection of sexual behavior

Friday June 9, 2017

Morning Sessions

- Chair: Matías Goldin*
- 09:00 – 09:50 **Keynote lecture: Alejandro Schinder** (Leloir Institute, Argentina)
How experience contributes to circuit assembly in the adult hippocampus
- 09:50 - 10:05 **Short talk 5: Anne Grelat** (Institut Pasteur, Paris)
Adult-born neurons boost odor-reward association
- 10:05 - 10:20 **Short talk 6: Lina Teichmann** (NeuroSpin, Gif-sur-Yvette)
Seeing colour where there is none: Decoding the implied colour of grey-scale objects using MEG
- 10:20 - 11:00 **Coffee Break**
- Chair: Darinka Trübtschek*
- 11:00 – 11:50 **Keynote lecture: Tobias Donner** (University of Hamburg, Germany)
Distinct catecholaminergic and cholinergic shaping of large-scale cortical population dynamics
- 11:50 - 12:05 **Short talk 7: Trang-Anh Nghiem** (UNIC, Gif-sur-Yvette)
Maximal entropy models of human cortical activity during wakefulness and deep sleep
- 12:05 - 13:45 **Lunch buffet (CNRS Restaurant)**

Afternoon Sessions

- Chair: Yannick Passarelli*
- 13:45 - 14:35 **Keynote lecture: Valérie Castellani** (INMG, Lyon)
Building neural circuits interconnecting the left and right sides of the central nervous system: molecular mechanisms of midline crossing
- 14:35 - 14:50 **Short talk 8: Pauline Kerekes** (UNIC, Gif-sur-Yvette)
Bilateral discrimination of tactile patterns without whisking in freely-running rats
- 14:50 - 15:00 **Poster blitz session 2**
- 15:00 – 16:30 **Coffee break & Poster Session 2**
- Chair: Valérie Ego-Stengel*
- 16:30 - 17:20 **Keynote lecture: Mark Hübener** (MPI-Martinsried, Germany)
Transplanted embryonic neurons integrate into adult neocortical circuits
- 17:20-17:30 **Poster Prize**
- 17:30 **Concluding remarks and end of the meeting**