

FENS-HERTIE WINTER SCHOOL 2018

"NEURAL CONTROL OF INSTINCTIVE AND INNATE BEHAVIOUR"

6-12 January 2019

Obergurgl University Center, Austria

Scientific Chairs: Prof. Tiago Branco and Prof. Dayu Lin

Programme

Sunday 6th January

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

19:00 - 20:30 *Dinner*

20:30 - 22:00 School introduction by co-chairs
Participants' introduction
FENS CHET presentation

Monday 7th January

09:00 - 10:30 **Florian Engert**
Department of Molecular and Cellular biology, Harvard
University, USA
*Neuronal mechanisms of evidence accumulation and
perceptual decision making in the larval zebrafish*

10:30 - 10:45 *Coffee break*

10:45 - 12:15 **Tiago Branco**
Sainsbury Wellcome Centre, University College London, UK
Computation of instinctive escape behaviour

12:15 - 16:00 *Free time*

12:15 - 14:00 *Lunch at the University Centre*

13.15 - 15.15 *Beginners' ski lesson*

- 16:00 - 16:20 *Coffee break*
- 16:20 - 17:50 **Andreas Lüthi**
Friedrich Miescher Institute for Biomedical Research,
Switzerland
Amgdala ensembles encode behavioral states
- 18:00 - 19:00 Students' short talks
- 19:00 - 20:30 *Dinner*
- 20:30 - 22:00 Roundtable discussion

Tuesday 8th January

- 09:00 - 10:30 **Dayu Lin**
Smilow Research Center, NYU Langone medical center, NY,
USA
The Neural mechanisms of aggression
- 10:30 - 10:45 *Coffee break*
- 10:45 - 12:15 **Susana Lima**
Champalimaud Research, Portugal
Neural mechanisms underlying sexual behavior
- 12:15 - 16:00 *Lunch at the Zirben Alm Obergurgl – Free time*
- 16:00 - 16:20 *Coffee break*
- 16:20 - 17:50 **Lisa Stowers**
Department of Molecular and Cellular Neuroscience, The
Scripps Research Institute (TSRI), USA
*Towards a mechanistic understanding of innate social
behavior in the mouse*
- 18:00 - 19:00 Roundtable discussion
- 19:00 - 20:30 *Dinner*
- 20:30 - 22:00 Poster Session I

Wednesday 9th January

- 09:00 - 10:30 **Kristin Branson**
Janelia Research Campus, HHMI, USA
Machine vision and learning methods for analyzing animal behaviour
- 10:30 - 10:45 *Coffee break*
- 10:45 - 12:15 **Robert Datta**
Department of Neurobiology, Harvard Medical School, USA
Motion Sequencing and the Brain
- 12:15 - 16:00 *Lunch at the Zirben Alm Obergurgl – Free time*
- 16:00 - 16:20 *Coffee break*
- 16:20 - 17:50 **Iain Couzin**
Max Planck Institute for Ornithology, Department of Collective Behaviour, University of Konstanz, Germany
Collective information processing in animal groups
- 18:00 - 19:00 Roundtable discussion
- 19:00 - 20:30 *Dinner*
- 20:30 - 22:00 Poster Session II

Thursday 10th January

- 09:00 - 10:30 **Nachum Ulanovsky**
Department of Neurobiology, Weizmann Institute of Science, Israel
Neural codes for natural navigation in the hippocampal formation of bats
- 10:30 - 10:45 *Coffee break*
- 10:45 - 12:15 Students' short talks
- 12:15 - 12:25 Hertie Foundation presentation
- 12:25 - 17:00 *Lunch – Free time*

12:30 - 14:00 *Lunch at the Zirben Alm Obergurgl*

14:00 - 16:00 *Snow walk (depending on weather)*

17:00 - 17:20 *Coffee break*

17:20 - 19:00 **Poster Session III**

19:00 - 20:30 *Dinner*

Friday 11th January

09:00 - 10:30 **Scott Sternson**
Janelia Research Campus, HHMI, USA
The Neurobiology of Need

10:30 - 10:45 *Coffee break*

10:45 - 12:15 **Marcello Ienca**
Department of Health Sciences and Technology, ETH Zurich,
Switzerland
Human Behaviour and Big Data: An Ethical Perspective

12:15 - 16:00 *Lunch at the Zirben Alm Obergurgl – Free time*

16:00 - 16:20 *Coffee break*

16:20 - 17:50 **Roundtable discussion**

18:00 - 19:00 **Conclusions by co-chairs, Wrap-up & Feedback session**

19:00 *Dinner & Farewell party*

Saturday 12th January

Breakfast and departure