

# “Flying Senses“ Symposium Schedule

Max Planck Institute of Experimental Medicine, Hermann-Rein-Str. 3  
Lecture Hall

## Day 1

Friday, 26th of October, 2018

8:30 Registration

9:00 **Welcome:** Marion Silies and André Fiala

9:10 - 10:10 **Opening Lecture**  
Claude Desplan (New York University)  
*“Development of the motion vision pathway in Drosophila”*

10:10 – 10:25 Maite Ogueta  
*“Non-canonical Phototransduction Mediates Synchronization of the Drosophila melanogaster Circadian Clock and Retinal Light Responses”*

10:25 - 11:15 **Coffee**

**Vision I: Peripheral Visual Processing** Chair: Michael Reiser

11:15 - 11:50 Dierk Reiff (University of Freiburg)  
*“Early Spectral Processing in Drosophila”*

11:50 - 12:10 Madhura Ketkar (European Neuroscience Institute, Göttingen)  
*“A luminance sensitive pathway facilitates motion detection in the dark”*

12:10 - 12:30 Mathias Wernet (FU Berlin)  
*“Modality-specific circuits in the fly visual system”*

12:30 - 14:30 **Lunch Buffet and Poster Session (Foyer)**

**Olfactory Coding** Chair: Silke Sachse

14:30 - 15:05 Carlotta Martelli (University of Konstanz)  
*“Adaptive Odor Representations along the Olfactory Pathway”*

15:05 - 15:40 Silke Sachse (MPI for Chemical Ecology, Jena)  
*“Odor Processing Strategies of Olfactory Circuits in Drosophila”*

15:40 - 16:00 Andrew Lin (University of Sheffield)  
*“Homeostatic plasticity in an olfactory circuit in the Drosophila central brain”*

16:00 - 16:30 **Coffee**

**Mechanosensation and Audition,** Chair: tbd

16:30 - 17:05 Jan Clemens (European Neuroscience Institute Göttingen)  
*“From Song to Behavior in Drosophila”*

- 17:05 - 17:25 Marta Andres Miguel (UCL)  
*"Biogenic amine (BA) receptors in the mosquito ear: From hearing modulation to swarming behavior"*
- 17:25 - 18:00 Martin Göpfert (University of Göttingen)  
*"Drosophila Mechanotransductions: Channels & Opsins"*
- 18:00 - 18:35 Jörg Albert (UCL)  
*"One Sensor Fits All: The Multimodal World(s) of Chordotonal Organs"*
- 18:35 Poster session with wine and cheese (Cafeteria)**

## Day 2

**Saturday, 27th of October, 2018**

### **Evolution of Sensory Systems,** Chair: Carlotta Martelli

- 9:00 - 9:35 Marcus Stensmyr (Lund University, Sweden)  
*"The Biology of Wild Non-Commensal African Drosophila melanogaster"*
- 9:35 - 9:55 Mohammed Khallaf (Max Planck Institute for Chemical Ecology, Jena)  
*"Finding a partner: Sexual communication in Drosophilids"*
- 9:55 - 10:30 Lucia Prieto-Godino (Francis Crick Institute, London, UK)  
*"Evolution of Olfactory Receptors in Drosophilids"*

### **10:30 - 11:10 Coffee**

### **Circuit Function and Computation;** Chair: Alex Mauss

- 11:10 - 11:45 Julijana Gjorgjieva (MPI for Brain Research, Frankfurt)  
*"Circuits for Navigation in Drosophila Larvae"*
- 11:45 - 12:05 Christian Rohrsen (University of Regensburg)  
*"Distinguishing appetitive and aversive stimuli from reinforcement and punishment"*
- 12:05 - 12:40 Ilona Grunwald-Kadow (TU Munich)  
*"The Flexible Fly – Mapping Circuits Underpinning Adaptive Behaviour"*

### **12:40 - 13:40 Lunch Buffet and Poster (Foyer)**

### **Motion Detection,** Chair: Marion Silies

- 13:40 – 14:00 Erin Barnhardt (NYU)  
*"Sequential Non-linear Filtering of Local Motion Cues By Global Motion Circuits"*
- 14:00 - 14:35 Michael Reiser (HHMI Janelia Research Campus, USA)  
*"New Direction in Motion Vision"*
- 14:35 - 14:55 Martin Heisenberg (University of Würzburg)  
*"In search of flight stabilization with ambiguous motion stimuli"*
- 14:55 - 15:30 Alex Mauss (MPI for Neurobiology, Martinsried)

*“Optic Flow Detection and Course Control”*

**15:30 - 16:10 Coffee**

**Sensory Learning and Memory,**

Chair: André Fiala

16:10 - 16:30 Moshe Parnas (Tel Aviv University)

*“Inhibitory muscarinic acetylcholine receptors enhance aversive olfactory conditioning in adult Drosophila”*

16:30 - 16:50 Johannes Felsenberg (University of Oxford)

*“Integration of parallel opposing memories underlies memory extinction”*

16:50 - 17:25 Gaia Tavosanis (DZNE, Bonn)

*“Structural Correlates of Memory Consolidation”*

17:25 – 17:45 David Raccuglia

*“Slow-wave oscillations steered by NMDA receptor activity gate sensory information in Drosophila sleep control”*

17:45 - 18:20 Bertram Gerber (Leibniz-Institute for Neurobiology, Magdeburg)

*“Searching for Taste”*

**18:20 - 18:30 Closing Remarks**

Marion Silies and André Fiala

**19:15**

**Speakers' Dinner**