

Freiburg im Breisgau 26. - 29.09.2013

<http://filab.biologie.uni-freiburg.de/meeting2013/meeting.html>



MEETING AGENDA

“The Nervous System of *Drosophila melanogaster* – from Development to Function”

Organisation: Prof. Dr. Karl-Friedrich Fischbach und Prof. Dr. Dierk F. Reiff



Tagungsort: Freiburg, Waldhof e.V. – Akademie für Weiterbildung
<http://www.waldhof-freiburg.de/>
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Thursday, September 26

2:00 pm Check-in and mounting of posters
4:30 pm Reception
6:00 pm Dinner

7:30 pm Opening Session
Chair: Dierk Reiff

7:30 pm Welcome by the Organizers & the Waldhof staff

7:40 pm Chu-Fang Wu, University of Iowa
A few words about J. Neurogenetics

7:45 pm Karl-Friedrich Fischbach, University of Freiburg
Drosophila development and neurobiology – classical questions and new perspectives.

7:55 pm Plenary Talk: Martin Heisenberg, Rudolf-Virchow-Zentrum (Würzburg)
The Beauty of the Network in the Brain and the Origin of the Mind in Behavior

9:00 pm Open discussion, refreshments and get together.

Friday, September 27

7:30 am Breakfast (service ends at 8:45 am)

9:00 am Session 1: Evolution and developmental mechanisms

Chair: Erich Buchner

- 9:00 am **Nicholas Strausfeld**, University of Arizona
How old is the insect brain and how similar is it to ours?
- 9:20 am **Gerhard Technau**, University of Mainz
Generation of cell diversity and segmental pattern in the CNS
- 9:40 am **Heinrich Reichert**, Biozentrum Basel
Drosophila Neural Stem Cells in Brain Development and Brain Tumors
- 10:00 am **Angela GIANGRANDE** IGBMC Strasbourg
Of glia and blood, from fly to mouse
- 10:20 am Break
- 10:40 am **Giorgos Pyrowolakis**, BIOS, University Freiburg
Regulatory feedback loops in morphogen signaling
- 11:00 am **Gert de Couet**, University of Hawaii
Preylated rab acceptor proteins in Drosophila
- 11:20 am **Robin Hiesinger**, Southwestern Univ. Dallas
Membrane Trafficking in Neuronal Development and Maintenance
- 11:40 am **Frank Schnorrer**, MPI for Biochemistry, Martinsried
Making of flight muscle - a balance of forces
- 12:00 pm Lunch (service ends at 1pm)

1:40 pm Session 2: Cell recognition and circuit development

Chair: Claude Desplan

- 1:40 am **Renate Renkawitz-Pohl**, University Marburg
Working title: FuRMAS is a synapse-like structure functioning in muscle fusion
- 2:00 am **Tobias Huber**, University Freiburg
Neph molecules from the C. elegans synapse to human Disease
- 2:20 pm **Ricardo Ramos**, Universidade de São Paulo
IrreC-Roughest and more
- 2:40 pm **Sujin Bao**, Saint James School of Medicine (New York)
Two counteracting mechanisms in the determination of unique cellular patterns in the Drosophila eye
- 3:00 pm Break
- 3:20 pm **Steve Britt**, University of Colorado
IRM proteins regulate R8 photoreceptor cell spectral subtype.
- 3:40 pm **Thomas Hummel**, Faculty of Life Sciences, University of Vienna
An instructive role of axon growth in synaptic layer selection
- 4:00 pm **Dietmar Schmucker**, Vesalius Research Center (Leuven)
Surface receptor specificity in neuronal wiring.
- 4:20 pm **Iris Salecker**, MRC National Institute for Medical Research, London
Neuron-glia interactions in Drosophila visual circuit assembly.
- 4:40 pm **Kei Ito**, University of Tokyo
Lineage, clan, and the community of neural network
- 5:00 pm Break & Poster session (drinks and snacks)
- 7:00 pm Dinner

8:00 pm Plenary Talk: Ian Meinertzhagen, Dalhousie University (Halifax)

But that's just anatomy: The search for synapses, circuits and wiring diagrams.

Chair: Kei Ito

9:00 pm Open discussion, refreshments and get together.

Saturday, September 28

7:30 am Breakfast (*service ends at 8:45 am*)

9:00 am Session 3: From neural circuit assembly to function

Chair: Michael Dickinson

9:00 am **Bassem Hassan**, VIB Center for the Biology of Disease (University of Leuven)

Wiring the fly brain

9:20 am **Mathias Wernet**, Department of Neurobiology, Stanford University, Stanford, CA 94305

Genetic Dissection of Polarization Vision Circuitry in Drosophila

9:40 am **Ilona Grunwald-Kadow**, MPI for Neurobiology, München

Towards a neural basis of context-dependent innate olfactory preference and aversion

10:00 am **Claude Desplan**, NYU Dept. Biology

Working title: From pattern formation to color vision

10:20 am **group photo of all participants**

10:30 am Break

10:50 am **Chi Hon Lee**, NIH Bethesda

Peripheral Chromatic Circuit in Drosophila

11:10 am **Oliver Griesbeck**, MPI Martinsried

Proteins, Biosensors, Brains

11:30 am **Bettina Schnell**, University of Washington

Neurons involved in visual course control in tethered flying Drosophila.

11:50 am **Dierk Reiff**, University of Freiburg

Dscams play an important role in neural circuit assembly and function.

12:10 pm Lunch (*service ends at 1pm*)

1:40 pm Session 4: From neural circuits to behavior

Chair: Chi Hon Lee

1:40 pm **Johannes Seelig**, JFRC

Sensorimotor maps in the Drosophila central complex

2:00 pm **Hironu Tanimoto**, MPI for Neurobiology

Circuits for memory formation

2:20 pm **Charlotte Helfrich-Förster**, University of Würzburg

The neural circuit of the circadian clock - from light input to behavioural output

2:40 pm **Matthieu Louis**, CRG, Barcelona

Sensorimotor computations underlying larval chemotaxis

3:00 pm Break

3:20 pm **Michael Dickinson**, University Washington

Working title: Flight behaviour in Drosophila

3:40 pm **Andrew Straw**, IMP (Wien)

How do flies resolve (visual) conflicts?

4:00 pm **Reinhard Wolf**, Biozentrum University of Würzburg

Perceptual Hypotheses in Drosophila Vision

4:20 pm **Roland Strauss**, University Mainz

How (not) to Cross a Gap Successfully

4:40 pm Break

5:00 pm Poster session & reception (drinks and snacks)

7:00 pm Dinner

8:00 pm Plenary Talk: Axel Borst

Neural Circuits for Elementary Motion Detection

Chair: Martin Heisenberg

9:00 pm Open Discussion, refreshments and get together.

Sunday, September 29

7:30 am Breakfast (service ends at 8:45 am)

9:00 am **Stephan Sigrist**, FU Berlin

Synapse Diversity in the Fly CNS

9:20 am **Panel discussion: What are the perspectives of *Drosophila* neurobiology and its impact on neurosciences?**

Moderators: Chu-Fang Wu (J. Neurogenetics), Roland Strauss, Chi-Hon Lee, Martin Heisenberg,

Dierk Reiff

11:00 am Good bye gathering

12:00 am **Lunch**

Departure