**ANN Spring Meeting 2018**

**Program**

**Tuesday 27.03**

12:30-14:20  Reception (Shuttle bus at 12:45 and 13:45 from Grünstadt train station)
14:20-14:30  Welcome Remark
14:30-17:45  Session 1 Learning and Molecular studies
18:00-19:00  Dinner
19:00-20:00  Plenary Lecture by Jim Truman
              A Journey through Insect Neurobiology: Moths, Hoppers, Flies and Beyond.
20:00-22:00  Poster (20:00- even number, 21:00- odd number)
21:30-        Beer+Wine

**Wednesday 28.03**

- 09:00  Breakfast
09:00-12:15  Session 2 Sensory systems: olfaction, vision and hearing
12:15-13:15  Lunch
13:15-15:40  Session 3 Motor systems and navigation
15:40-18:00  Free time
18:00-19:00  Dinner
19:00-22:00  Poster (19:00- odd number, 20:00- even number)  →  Beer+Wine
21:00-        Small meeting for future plan (for those who are interested)
22:00-        Party

**Thursday 29.03**

- 09:00  Breakfast
09:00-11:50  Session 4 Anatomy, Circadian clocks, Honey bee division of labor,
             "play-like"-behavior:
1150-1215  Broad discussion for future meeting
1215-1220  Closing remark
1220-1320  Lunch (+ Ceremony of Félix Dujardin Award)
            Departure (2 shuttle busses at 13:45 to Grünstadt train station)

**Talks**

- 14 min presentation, 8 min discussion = 22 min total.
- Please bring your own laptop computer (projector and laser pointer are provided).
- Please connect your computer during discussion of the previous speaker.
- Please test your computer to connect to the projector before your session.

**Session 1: Learning and Molecular studies:** Chair Naoko Toshima/Svende Herzmann

1  Michael Schleyer (Leibniz Institute for Neurobiology, Gerber Lab)
   Characterisation of an optogenetically activated dopaminergic reward signal

2  Büsra Coban (University of Göttingen, Fiala Lab)
   Structural plasticity of the mushroom body-related dopaminergic neurons in
dependence of the nutritional value of food

3  Mira Becker (University of Würzburg, Strube-Bloss/Rössler Lab)
   Learning of olfactory-visual compounds during PER experiments in honeybees

4  Dennis Pauls (University of Würzburg, Wegener Lab)
   Feedback signaling from mushroom body Kenyon cells to DANs during larval
associate conditioning

**BREAK**

5  Kumar Aavula (Technical University of Kaiserslautern, Pielage Lab)
   The pseudo-kinase Madm coordinates synapse development and maintenance via
mTOR signaling in Drosophila

6  Federico Tenedini (University Medical Center Hamburg-Eppendorf (UKE), Soba Lab)
   The Role of Tao Kinase in Synaptic Connectivity

7  Rafael Krämer (University of Münster, Rumpf Lab)
   Coupling of membrane targeting and developmental degradation of transmembrane
receptors via Rab11 in Drosophila c4da neurons

8  Anna Ziegler (DZNE Bonn, Tavosanis Lab)
   Role of lipid synthesis in dendrite differentiation

**Plenary Lecture**

Jim Truman (University of Washington)
A Journey through Insect Neurobiology: Moths, Hoppers, Flies and Beyond.
Session 2: Sensory systems: olfaction, vision and hearing:
Chair Ana Depetris-Chauvin/Atefeh Pooryasin

9 Mohammed Khalaf Ali (Max Planck Institute for Chemical Ecology, Hansson Lab)
Finding a partner: Sexual communication in Drosophila

10 Sudeshna Das (Max Planck Institute for Chemical Ecology, Sachse Lab)
Interaction of food odors and sex pheromone in Drosophila melanogaster

11 Katrin Schröder (University of Kassel, Stengel Lab)
Long-term tip recordings and pharmacological analysis of the spontaneous activity of pheromone-sensitive olfactory receptor neurons of the hawkmoth Manduca sexta

12 Stefan Dippel (University of Marburg, Schachtner Lab)
Morphological and transcriptomic analysis of a beetle chemosensory system reveals a gnathal olfactory center

BREAK

13 Ronny Rosner (Newcastle University, Read Lab)
Neurons sensitive to binocular disparities in the praying mantis

14 Jan Scherberich (University of Frankfurt, Nowotny Lab)
Neuronal characteristics in the auditory system of katydids

15 Bart Geurten (University of Göttingen, Göpfert Lab)
Sharing Transducers

16 Matthes Kenning (University of Greifswald, Harzsch Lab)
Sensing from both ends?

Session 3: Motor systems and navigation:
Chair Katja Hellekes/Erica Ehrhardt

17 Bettina Schnell (Research Center Caesar, Schnell Lab)
A descending neuron controlling steering maneuvers of flying Drosophila

18 Etienne Campione (University of Freiburg, Straw Lab)
Visuo-motor responses to rotation and translation in freely flying Drosophila melanogaster

19 Felix Clotten (University of Cologne, Wellmann Lab)

Session 4: Anatomy, Circadian clocks, Honey bee division of labor, "play-like"-behavior: Chair Dusica Brisevac/Koustitbuh Vaze

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Posters

- DIN A0 Size Upright (portrait). 841 mm wide x 1189 mm high.
- All the posters will be presented throughout the meeting. Please hang your poster before the end of the first dinner. Remove it either during party or in the morning of the last day.

Room 1

30 Stella Nolte (Aarhus University, von Philipsborn Lab)
GABAergic inhibition shapes Drosophila courtship singing

31 Nina Deisig (IEES Paris, UMR 1392, Joly-Jacquin Lab)
Modulatory effects of pheromones on aversive olfactory learning and memory in moths

32 Dusica Brisevac (Max Planck Institute for Evolutionary Biology, Kaiser Lab)
Identifying a mechanosensory pathway in charge of setting the circalunar clock

33 Tobias Weber (Technical University of Kaiserslautern, Pielage Lab)
Investigation of domain-specific requirements of Arkyrin2 for synapse organization and stability using an in-vivo structure function approach

34 Floriana Bilz (University of Göttingen, Fiala Lab)
Optical Analysis of Synaptic Plasticity Underlying Associative Learning in Drosophila melanogaster

35 Clare Hancock (University of Göttingen, Fiala Lab)
Calcium Imaging of Olfactory Representations in Mushroom Body Output Neurons

36 Sebastian Rumpf (University of Münster, Rumpf Lab)
Non-canonical translation initiation of ecdysone target mRNAs during dendrite pruning

37 Svende Herzmann (University of Münster, Rumpf Lab)
Microtubule disassembly during dendrite pruning in Drosophila melanogaster

38 Peter Deppisch (University of Würzburg, Förster Lab)
The role of CRYPTOCHROME in high- and low-latitude Drosophila species

39 Koustubh Vaze (University of Würzburg, Förster Lab)
Circadian activity and molecular rhythms under T-cycle entrainment in D. melanogaster

Room 2

40 Giovanni Marchetti (DZNE, Tavosanis Lab)
TGF-beta signaling regulates fate specification in developing brain

41 Sheng Huang (Freie Universität Berlin, Sigrist Lab)
Presynaptic Active Zone Plasticity Encodes Sleep Drive and Frequency in Drosophila

42 Atefeh Pooryasins (Freie Universität Berlin, Sigrist Lab)
Functional role of synaptic proteins in olfactory processing

43 Zeeshan Mushtaq (Technical University of Kaiserslautern, Pielage Lab)
Microtubule-dependent control of synapse organization and stability

44 Erica Ehrhardt (University of Cologne, Ito Lab)
The role of wing motoneurons of Drosophila melanogaster in tethered flight and courtship song

45 Sayan Soselisa (University of Freiburg, Straw Lab)
Object responses in Drosophila melanogaster tethered flight

46 Katja Hellekes (University of Freiburg, Straw Lab)
Influence of neuropeptides on visuo-motor control of freely flying drosophila in a virtual reality setup

47 Tilman Triphan (University of Leipzig, Triphan Lab)
Into the void – Protocerebral bridge neurons involved in gap crossing

48 Radostina Lyutova (University of Würzburg, Wegener Lab)
New insights into the functional connectivity of Drosophila larval mushroom body Kenyon cells by artificial optogenetic activation

49 Jiuyang Chen (University of Würzburg, Wegener Lab)
Using the maggot to identify core functions of the brain-gut allstatostatin A peptides in Drosophila

50 Abina Boesjes (University of Freiburg, Straw Lab)
Balancing visually guided object approach and background stabilization in freely flying flies
31  Naoko Toshima (Leibniz Institute for Neurobiology (LIN), Gerber Lab) 
Appetitive and aversive learning of amino acids in Drosophila larvae

32  Seran Sayin (Technical University of Munich, Kadow Lab) 
Specific octopaminergic neurons arbitrate between perseverence and reward in hungry Drosophila

33  Jean-Francois De Backer (Technical University of Munich, Kadow Lab) 
Specific octopaminergic neurons arbitrate between perseverance and reward in hungry Drosophila

34  Alexander Chockley (University of Cologne, Büschges Lab) 
Subsets of femoral chordotonal organ neurons in Drosophila

35  Anna Haberkorn (University of Cologne, Büschges Lab) 
Identification of Force Feedback Signals Controlling the Thoraco-Coxal Joint in an Insect

36  Sander Liessem (University of Cologne, Büschges Lab) 
Revealing the Peptide Inventory of Neurons Belonging to an Insect Locomotor System

37  Marcel Blaeser (University of Köln, Predel Lab) 
Evolution of Neuropeptides in Insects over the last 300 myr

38  Denise Weber (University of Leipzig, Thum Lab, MASTER_STUDENT) 
Salt Learning in Drosophila Larvae

39  Astrid Rohwedder (University of Leipzig, Thum Lab) 
Brainbase: a Larval Standard Brain resource

40  Ronja Hensgen (University of Marburg, Homberg Lab) 
Temporal dynamics of E-vector responses in neurons of the central complex of the desert locust Schistocerca gregaria

41  Björn Trebels (University of Marburg, Schachtner Lab) 
Postmetamorphic plasticity of the mushroom bodies
### Moderne Jugendherberge in historischem Burgambiente

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1. Poster room 1  
2. Poster room 2  
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5. Oral session room  
6. not used
Charter busses  
27. March 2018  (goes directly to JH Altleiningen)  
departing Grünstadt Bahnhof at  
12:45 and 13:45  
To take the bus, please wait at the bus stops next to the 
platform and look for the bus with a sign.  

Regular busses  
Grünstadt Bahnhof -> Altleiningen Feuerwehr (duration)  
Red indicates the busses that take longer course.  

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Otherwise you will be late.  
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20:42 -> 21:06 (24 min)  

Charter busses  
29. March 2018  (goes directly to Grünstadt Bahnhof)  
2 busses departing JH Altleiningen at  
13:45  

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It takes about 10-15 min to walk from  
Altleiningen Feuerwehr bus stop to JH Altleiningen.