

**Day 1, Tuesday, October 14<sup>th</sup>, seminar room 1/ 2**

07:50	Meet at bus stop outside of west entrance to Klinikum (of public bus 8 and 12) The address is Robert-Koch-Str. 40.
08:00	Departure
13:00	Arrival to MPIPKS guest house/Leonardo hotel
13:00 – 13:45	Lunch in Cafeteria
13:45 – 14:30	<i>Institute tour led by Dr. Benjamin Friedrich in German</i> <i>Institute tour led by Amitabha Nandi in English</i> <b>(Meeting point: institute reception)</b>
14:30 – 14:40	Opening remarks by Prof. Martin Göpfert
14:40 – 15:00	Dr. Benjamin Friedrich, “Chemosensation of sperm cells along helical paths controls robust navigation”

**15:00 – 16:00      Talk Session 1 (Chair: Martin Göpfert)**

15:00 – 15:20	Philipp Jähde (SMN- Göpfert): “Response of single Drosophila auditory neurons to wind and sound”
15:20 – 15:40	Stefanie Krinner (SMN-Moser): “Heterogeneity of sound encoding at inner hair cell ribbon synapses – a molecular and biophysical study of single active zones”
15:40 – 16:00	Maria Magdalena Picher (SMN-Moser): “The role of Ca <sup>2+</sup> binding protein 2 (CaBP2) in synaptic sound encoding and hearing”

16:00 – 16:20 *Coffee break*

**16:20 – 18:00      Talk Session 2 (Chair: Ellen Reisinger)**

16:20 – 16:40	Alexandra Müller (SMN-Reisinger): “Proximity Ligation Assay to validate protein interactions in inner hair cells”
16:40 – 17:00	Sandra Meese (SFB-Ficner): “Phosphorylation regulates Calcium affinity of Otoferlin”
17:00 – 17:20	Dr. Tina Pangršič Vilfan (SFB-Moser): “Regulation of [Ca <sup>2+</sup> ] in cochlear inner hair cells”
17:20 – 17:40	Dr. Chao-Hua Huang (SFB-Moser): “Mechanisms of synaptic vesicle release studied at single active zones”
17:40 – 18:00	Christian Vogl (SFB-Moser): “Unconventional molecular regulation of synaptic vesicle replenishment in cochlear inner hair cells”

18:00 – 19:00 *Dinner in MPIPKS*

Ca. 19:00 – Social gathering hosted by Moser lab ( MPIPKS Cafeteria)

**Day 2, Wednesday, October 15<sup>th</sup>, seminar room 1/2**

8:15 – 9:00 Breakfast

**09:00 – 10:00 Talk Session 3 (Chair: Carolin Wichmann)**

09:00 – 09:20	Gulnara Yamanbaeva (SMN-Strenzke): “Sound encoding in mutant mice with disrupted auditory nerve action potential generation”
09:20 – 09:40	Susann Michanski (SFB-Wichmann): “Molecular and structural investigation of assembly, maturation and heterogeneity of inner hair cell ribbon synapses”
09:40 – 10:00	Rituparna Chakrabarti (SMN-Wichmann): “Determination of dynamic vesicle pools in sensory ribbon synapses in correlation to pre-synaptic morphological defects”

10:00 – 10:20 *Coffee break*

**10:20 – 11:00 Talk Session 4 (Chair: Nicola Strenzke)**

10:20 – 10:40	Luca Avenali (SMN-Schmidt): “Characterization of protein complexes associated with TRP channels in the context of nociception”
10:40 – 11:00	Tanvi Butola (SFB-Moser): “Role of Piccolo in high frequency transmission at a central auditory synapse”
11:00 – 11:20	Nandhini Sivakumar (SMN-Brose): “Structure-Function Relationships in Presynaptic Proteins - Complexins and SNAP29”

11:20 – 11:40 *Coffee break*

**11:40 – 13:00 Talk Session 5 (Chair: Tina Pangršič Vilfan)**

11:40 – 12:00	Friederike Wetzler (SMN-Dresbach): “The novel presynaptic protein Mover contributes to molecular heterogeneity in the rodent ventral cochlear nucleus”
12:00 – 12:20	Akula Asha Kiran (SMN-Dresbach): “A point mutation abolishes the targeting of Mover to presynaptic terminals”
12:20 – 12:40	Vasmer David (SMN-Fiala): “Neuronal Mechanisms Underlying Learning and Memory in Drosophila”
12:40 – 13:00	Dr. Katrin Willig (B7-PI): “in vivo STED microscopy”

13:00 – 14:00 *Lunch in Cafeteria*

14:00 – 17:20 Free time

17:20 – 18:20 Dinner

**18:20 – 19:20 Talk Session 6 (Chair: Siegrid Löwel)**

18:20 – 18:40	Neethu Michael (SMN-Löwel): “Features of the Retinotopic Representation of the Visual Wulst in a Laterally Eyed Bird, the Zebra Finch”
18:40– 19:00	Evgenia Kalogeraki (SMN-Löwel): “Influence of different housing conditions on ocular dominance plasticity in mice”
19:00 – 19:20	Sophia Stodieck (SMN-Löwel): “The role of the MAGUK proteins in vision and visual plasticity of mice”

19:30 – Social gathering hosted by Löwel lab in “Paul Rackwitz” (<http://www.paul-rackwitz.de/>)

**Day 3, Thursday , October 16<sup>th</sup> , seminar room 4**

8:15 – 9:00 Breakfast

**09:00 – 10:20 Talk Session 7 (Chair: Jochen Staiger)**

09:00 – 09:20	Florian Walker (SMN-Staiger): “Integration of Martinotti cells in the Rodent Barrel Cortex”
09:20 – 09:40	Xiaojuan Zhou (SMN-Staiger): “EM characterization of the targets of vasoactive intestinal peptide positive interneurons in mouse somatosensory cortex”
09:40 – 10:00	Julien Guy (SMN-Staiger): “Functional connectivity of the reeler mouse somatosensory cortex”
10:00 – 10:20	Alvar Prönneke (SMN-Staiger): “VIP expressing interneurons in mouse barrel cortex”

10:20 – 10:40 Coffee break

**10:40 – 11:40 Talk Session 8 (Chair: Tim Gollisch)**

10:40 – 11:00	Dr. Michael Weick (Gollisch Lab): “Cellular Basis of Visual Feature Representation in Retinal Ganglion Cells”
11:00 – 11:20	Norma Kühn (SMN-Gollisch): “Motion encoding in the salamander retina”
11:20 – 11:40	Marianne Helene Schreyer (SMN-Gollisch): “Encoding of visual signals in the transmission from bipolar to ganglion cells in the retina”

11:40 – 12:40 Lunch

12:40 – 16:45 Free time

16:45 – 17:10 Coffee break

**17:10 – 17:55 Continuation of Talk Session 8 (Chair: Tim Gollisch)**

17:10 – 17:55	Guest lecture by Prof. Dr. Axel Borst: “Neural Circuits for Elementary Motion Detection”
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**17:55 – 18:35 Talk Session 10 (Chair: Alexander Gail)**

17:55 – 18:15	Bahareh Taghizadeh (SMN-Gail): “Object-based spatial encoding in monkey parietal reach region and dorsal premotor cortex”
18:15 – 18:35	Dr. Cliodhna Quigley (SFB-Treue): “Neuropharmacology of visual attention in the monkey brain“

18:35 – 19:35 Dinner

20:00 – Social gathering hosted by Staiger lab (Dresdner Neustadt)

**Day 4, Friday , October 17<sup>th</sup> , seminar room 1/2**

8:15 – 9:00 Breakfast

**09:00 – 10:20 Talk Session 11 (Chair: Fred Wolf)**

09:00 – 09:20	Mantas Gabrielaitis (SMN-Wolf): “Mathematical modelling of inner hair cell synapses”
09:20 – 09:40	Julia Hillmann (SMN-Gütig): “Specialisation within populations of neuronal feature detectors”
09:40 – 10:00	Leonie Schmalfluss (Paulus-SMN): “Steer by ear: new function of auricular muscles in wheelchair control and effects on neuronal plasticity of the motor cortex”
10:00 – 10:20	Daniel Keppeler (SMN-Moser): “Optogenetic stimulation of the cochlea”

10:20 – 10:40 *Coffee break*

**10:40 – 12:10 Talk Session 11 (Chair: Alexander Gail)**

10:40 – 11:25	Zsolt Turi (Antal-SMN), <b>test talk for defense:</b> “Transcranial direct current stimulation: methodological and cognitive aspects”
11:25 – 12:10	Plinio Favaro (SFB-Schlüter), <b>test talk for defense:</b> “Silent synapses in visual cortex”

12:10 – 12:45 Internal affairs

12:45 – 13:00 Closing remarks & Awards for best speakers

13:00 – 14:00 Lunch

Ca. 14:15 Departure to Göttingen

Ca. 19:00 Arrival to Göttingen