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Organisation

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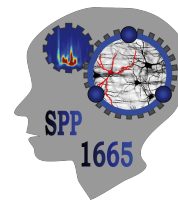
Developmental Neurophysiology

Center for Molecular Neurobiology (ZMNH)

University Medical Center-Eppendorf (UKE)



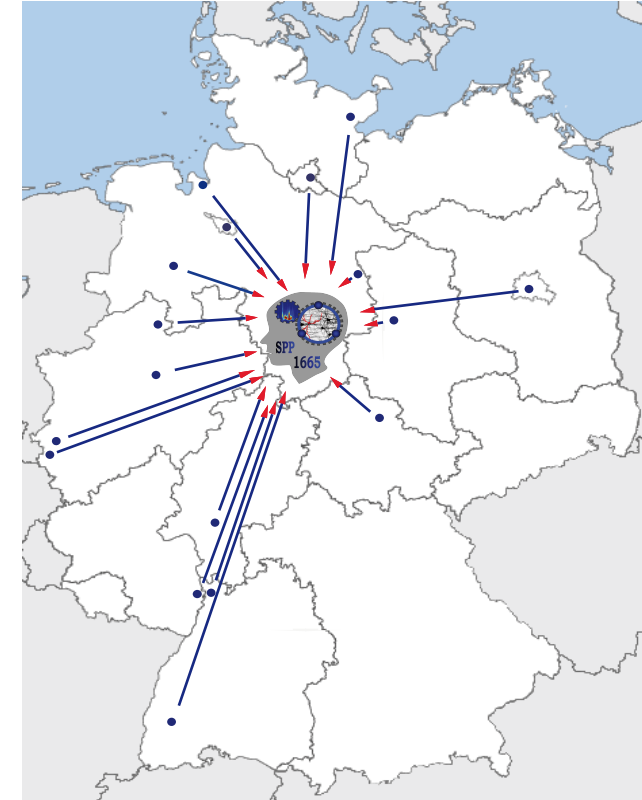
Venue: Georg-August-Universität Göttingen
Verfügungsgebäude, 2. Stock Raum 2.101
Platz der Göttinger Sieben 7
37073 Göttingen



Resolving and manipulating neuronal networks in the mammalian brain - from correlative to causal analysis
www.spp1665.de

Progress Report

March 18, 2015



Geisteswissenschaftliches Zentrum
Georg-August-Universität
Platz der Göttinger Sieben 7
37073 Göttingen

Sponsored by:



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Wednesday, March 18th 2015

- 08.00-08.20 Welcome and introductory remarks
Ileana Hanganu-Opatz, Hamburg
Kathrin Harringa, Hamburg
 First presentation session
- 08.20-08.35 Presentation project **Diester - Buchholz - Monyer - Fries**
 Cell-type specific optogenetic manipulation for characterizing the role of inhibitory interneurons in motor cortex of non-transgenic animals
 Speaker: Jessica Hartmann, *Langen*
- 08.35-08.50 Presentation project **Hanganu-Opatz - Hegemann - Oertner - Denker**
 Optogenetic dissection of the developing prefrontal-hippocampal circuitry that gates mnemonic and executive maturation
 Speaker: Sebastian Bitzenhofer, *Hamburg*
- 08.50-09.05 Presentation project **Sigurdsson - Röper - Duvarci - Schneider**
 Dopamine function in working memory networks and its dysfunction in a mouse model of schizophrenia
 Speaker: Pascal Vogel, *Frankfurt*
- 09.05-09.20 Presentation project **Hahn - Kelsch - Durstewitz**
 Network dynamics and computational mechanisms of rule learning
 Speaker: Georgia Koppe, *Mannheim*
- 09.20 - 09.35 Presentation project **Hermann - Engel - Wolters**
 Causal role of brain oscillations in perception: modulation of network dynamics by transcranial alternating current stimulation
 Speaker: Heiko Stecher, *Oldenburg* and Sven Wagner, *Münster*
- 09.35 - 09.50 Coffee Break
- Second presentation session
- 09.50 - 10.05 Presentation project **Kreiter - Ernst - Lang**
 Interareal phase coherence as a mechanism for attention-dependent neuronal signal routing: A model-guided causal analysis using new, multi-contact floating silicon probes for intracortical chronic stimulation and recording in primates
 Speaker: Heiko Stemmann, *Bremen*

- 10.05 - 10.20 Presentation project **Holthoff - Kirmse - Hübner - Kiebel**
 Developmental significance of GABAergic depolarization for the functional maturation of the primary visual cortex
 Speaker: Chuanqiang Zhang, *Jena*
- 10.20 - 10.35 Presentation project **Paulus - Logothetis - Obermayer**
 Causal relations among systems states and behavior in primate memory: A tACS perturbation approach
 Speaker: Florian Aspart, *Berlin*
- 10.35 -10.50 Presentation project **Jancke - Herlitze - König**
 The influence of serotonergic signaling on visual and somatosensory cortical processing and its relevance for motor behavior
 Speaker: Katharina Spoida, *Bochum*
- 10.50 -11.05 Presentation project **Isbrandt - Sirota - Krautschneider**
 High-resolution characterization of functional connectivity and behavior in healthy and transgenic mice from the neonatal period through adulthood
 Speaker: Robin Hinsch, *Köln* and Lait Abu-Saleh, *Hamburg*
- 11.05 -11.20 Presentation project **Marshall - Schweikard - Ponomarenko**
 Weak electric current stimulation and optogenetics to investigate sleep-dependent memory consolidation and ensemble reactivation
 Speaker: Xiaojie Gao, *Berlin*
- 11.20 -11.35 Presentation project **Ohl - Grün - Schmidt**
 Causative mechanisms of mesoscopic activity patterns in auditory category discrimination
 Speaker: Kentaroh Takagaki, *Magdeburg*
- 11.35 -11.50 Coffee Break
- 11.50 - 12.50 Networking hour (optional)