

MPS-UT Joint Symposium “Neuroscience”

October 28th (Fri)

- 9:00 Registration
- 9:35 Opening Remark
Masanobu Kano (UT)
- 9:40 Herbert Jaeckle (MPS)
Introduction to the Max Planck Society
- 10:05 Tobias Bonhoeffer (MPS)
How activity changes synapses in the mammalian brain
- 10:30 Yasushi Miyashita (UT)
Local circuit and global network of cognitive memory in the cerebral cortex of the primate
- 10:50 Coffee break
- 11:20 Thomas Braun (MPS)
NSCL-2 dependent
GnRH-neurons regulate energy homeostasis by controlling the number of POMC neurons
- 11:40 Jens Bluening (MPS)
Central regulation of food intake and metabolism
- 12:00 Haruhiko Bito (UT)
Signaling from the synapse to the nucleus and back to the synapse
- 12:20 Lunch break
- 13:30 Gregor Eichele (MPS)
The molecular- and organismal-levels of regulation of the mammalian circadian clock
- 13:50 Manfred Gahr (MPS)
Electrophysiological correlates of vocal communication in social groups: birds as a model
- 14:10 Masamitsu Iino (UT)
Nitric oxide-induced calcium release from intracellular stores: a new regulatory mechanism of neuronal function in the brain
- 14:30 Christian Griesinger (MPS)
Neurodegeneration and interfering with it: An NMR spectroscopic view
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Neurodegeneration and interfering with it: An NMR spectroscopic view
- 14:50 Moritz Grosse-Wentrup (MPS)
What are the neurophysiological causes of performance variations in brain-computer interfacing?
- 15:10 Masanobu Kano (UT)
Refinement and functional maturation of climbing fiber to Purkinje cell synapses during postnatal cerebellar development

- 15:30 Coffee break
- 16:00 Moritz Helmstaedter (MPS)
Reconstruction of neuronal circuits using Serial Block-face Scanning Electron Microscopy (SBEM)
- 16:20 Susanne Hoeing (MPS)
Stem cell-based discovery of inhibitors of microglial neurotoxicity acting through multiple mechanisms
- 16:40 Haruo Kasai (UT)
GABA dependence of synaptic competition in dendritic spines
- 17:00 Reinhard Jahn (MPS)
Mechanism of SNARE-mediated membrane fusion-lesson from protein chemistry
- 17:20 U.Benjamin Kaupp (MPS)
A chemoattractant receptor encoding single-molecule responses
- 17:40 Kiyoto Kasai (UT)
Integrative neuroimaging studies for schizophrenia targeting early intervention and prevention (IN-STEP)
- 18:00 Philipp Khaitovich (MPS)
Human-specific features of postnatal brain development

October 29th (Sat)

- 9:00 Vladan Lucic (MPS)
Imaging neuronal synapses at molecular resolution by cryo-electron tomography
- 9:20 Eva-Maria Mandelkow (MPS)
Cell and animal models of tau pathology and neurodegeneration
- 9:40 Masayoshi Mishina (UT)
Synapse formation in the brain
- 10:00 Hanno-Sebastian Meyer (MPS)
Inhibitory circuits in a cortical column
- 10:20 Peter Mombaerts (MPS)
Coding olfaction
- 10:40 Coffee break
- 11:00 Kensaku Mori (UT)
The workings of olfactory system during awake exploratory behavior and postprandial sleep
- 11:20 Nobuhito Saito (UT)
Experimental cerebral ischemia. Development of neuro-regeneration model and white matter ischemia model
- 11:40 Linda Partridge (MPS)
Intervening in ageing to prevent Alzheimer's disease

- 12:00 Shigeo Okabe (UT)
Remodeling of glutamatergic synapses in vitro and in vivo
- 12:20 Lunch break
- 13:30 Susumu Tonegawa (MIT, RIKEN)
TBA
- 14:10 JeongSeop Rhee (MPS)
Neurobeachin regulates transmitter receptor trafficking to CNS synapses
- 14:30 Andreas Schaefer (MPS)
Mechanisms of sensory processing: Inhibition and odour discrimination in mice
- 14:50 Takeshi Iwatsubo (UT)
Alzheimer's disease: from molecular pathology to disease-modifying therapy
- 15:00 Wolf Singer (MPS)
Dynamic coordination of functional networks in the cerebral cortex: Mechanisms, development and psychiatric diseases
- 15:20 Coffee break
- 15:50 Michael Morgan (MPS)
Elementary motion detectors in human vision
- 16:10 Erik Storkebaum (MPS)
How do mutations in tRNA synthetase genes lead to Charcot-Marie-Tooth peripheral neuropathy?
- 16:30 Shoji Tsuji (UT)
Toward better understanding the molecular basis of sporadic neurodegenerative diseases
- 16:50 Takashi Suzuki (MPS)
Synaptic specificities: Axon targeting and synapse formation in the Drosophila visual system
- 17:10 Hiromu Tanimoto (MPS)
Reinforcement signals in the fly brain
- 17:30 Hirokawa Nobutaka (UT)
The intracellular transport and kinesin superfamily proteins, KIFs : from brain wiring and development to higher brain function
- 18:00 Closing remarks
Peter Mombaerts (MPS)