

**International Conference on Brain Plasticity *linking*  
Molecules, Cells & Behavior**

# Program

**Monday, September 4, 2017**

**2.00 pm** Esther Kühn & Eckart Gundelfinger *Welcome*

**2.15 – 2.55 pm** Keynote

**John „Jack“ Byrne (Houston)** *Pharmacological Approaches and Computer-Assisted Optimization of Training Schedules to Enhance Memory Mechanisms*

## **Symposium: Neuroplasticity: How genes & molecules manifest physiology & behavior**

**3.00 pm** Kathrin Marter (Magdeburg) *Towards the Characterization of the Drosophila Mushroom Body Proteome using Cell-Selective Non-Canonical Amino Acid Tagging*

**3.20 pm** André Fiala (Göttingen) *Learning and memory in Drosophila: Linking behavior, neuronal circuits and synaptic plasticity*

**3.50 pm** Coffee break

**4.20 pm** Anna Ciuraszkiewicz (Magdeburg) *Distinct roles of auxiliary  $\alpha 2\delta$  subunits of voltage-gated calcium channels in excitatory/inhibitory neurotransmission and network activity*

**4.40 pm** Denise Manahan-Vaughan (Bochum) *Differential encoding by hippocampal subfields of components of a spatial representation*

**5.10 pm** Thomas J. McHugh (Tokyo) *Local circuit interactions shaping hippocampal excitability*

**7.30 pm** Speakers Dinner

**Tuesday, September 5, 2017**

**Symposium: The brain's change of view – neural basis of behavioral flexibility**

- 9.00 am** Jaime de la Rocha (Barcelona) *Rats decisions flexibly integrate sensory information and recent history of outcomes*
- 9.30 am** Max Happel (Magdeburg) *Enhanced memory flexibility of cortical circuits*
- 9.50 am** Simon Rumpel (Mainz) *Experience-induced rapid nucleus-scale movements of chromatin*
- 10.20 am** Adrian Fischer (Magdeburg) *Beta power as an online decision index*
- 10.40 am** Coffee break
- 11.10 am** Hauke Heekeren (Berlin) *Learning, memory, and decision making: from perception to valuation*

**11.40 – 12.20 pm** Keynote

**Pascal Fries (Frankfurt / Main)** *Rhythms for Cognition: Communication through Coherence*

**12.25 pm** Lunch break

**Symposium: Changing matters – intrinsic plasticity in health and disease**

- 2.00 pm** Stefan Remy (Bonn) *Synaptic integration in hippocampal neurons during spatial navigation*
- 2.30 am** Jeffrey Lopez Rojas (Magdeburg) *Intrinsic plasticity of mature granule cells of the dentate gyrus*
- 2.50 am** Thomas Nevian (Bern) *Plasticity of cortical networks in neuropathic pain*

## Symposium: Changing matters – intrinsic plasticity in health and disease – part 2

**3.20 pm** Coffee break

**3.50 pm** Esther Kühn (Magdeburg) *A new window of insight: In-vivo cortical myelin mapping in humans at sub-milimeter resolutions*

**4.10 pm** Michael Lippert (Magdeburg) *Plasticity in the dopamine system: influence of sustained VTA activation on brain-wide functional networks*

**4.30 pm** Andreas Frick (Bordeaux) *Intrinsic plasticity of neocortical circuits in memory and autism spectrum disorder*

**5.00 pm** Poster session & free food and drinks

**8.00 pm – open end** Social evening @ Mückenwirt (if weather is good)

## Wednesday, September 6, 2017

### Symposium: The multiple faces of stress: A tale of (mal-) adaptation

**9.00 am** Anne Albrecht (Magdeburg) *HIPP neurons in the dentate gyrus mediate the cholinergic modulation of background context memory salience*

**9.20 am** Susan Sangha (West Lafayette) *Neural circuitry for suppressing conditioned fear in the presence of a safety cue*

**9.50 am** Iris Müller (West Lafayette) *The impact of juvenile experience on learning in adulthood*

**10.10 am** Harm Krugers (Amsterdam) *Stress, emotions and memory*

## Symposium: The multiple faces of stress: A tale of (mal-) adaptation – part 2

**10.40 am** Coffee break

**11.10 am** **Elbert Geuze (Utrecht)** *Imaging trauma: Neuroimaging studies of traumatic stress*

**11.40 – 12.20 pm** Keynote

**Alon Chen (Munich & Rehovot)** *Genetic and optogenetic dissection of the central stress responses and stress-linked psychiatric disorders*

**12.25 pm** **Constanze Seidenbecher** *Closing remarks*

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