

**Monday, March 2 - LIN**

**Public Lecture at LIN Ebbinghaus Lecture Hall (in German)**

Chair: Eckart Gundelfinger

19:00      **Prof. Dr. Dr. h.c. Güntürkün, Bochum**

Nicht vergessen – Wie Vergessen zu einem neuen Lernprozess führt

**Tuesday, March 3 - Herrenkrug**

**Morning Session 9 a.m.**

**Introductory Remarks**

Frank Ohl, Coordinator of the Collaborative Research Center „Neurobiology of motivated behavior“

**1. Inter-regional interactions in memory processing**

Chairs: Markus Fendt, Volkmar Leßmann & Magdalena Sauvage

09.10 – 09.40 **Paul Frankland, Toronto, Canada**

The network organization of memory

09.45 – 10.15 **Mu-ming Poo, Berkeley/Shanghai**

Local and long-range signaling of BDNF in neural circuit plasticity

10.20 – 10.50 **Simone Sartori, University of Innsbruck**

The Dopamine System in Fear extinction

10.55 – 11.25 Coffee and Posters

11.25 – 11.55 **Jan Born, Tübingen**

Hippocampal-Neocortical Interactions Underlying Memory Consolidation During Sleep

12.00 – 12.30 **Emrah Düzel, Magdeburg**

Effects of Alzheimer's Disease pathology on episodic memory

12.35 – 13.40 Lunch

13.40 – 14.30 Poster Time (even numbers)

**Afternoon Session 2.30 p.m.**

**2. Decision making, confidence, and metacognition**

Chairs: Emrah Düzel & Markus Ullsperger

14.30 – 15.00 **Stephen Fleming, UCL, London**

How metacognition drives belief change: a tale of pessimism and optimism

15.05 – 15.35 **Chris Summerfield, Oxford**

Some uncertainty about representations of uncertainty

15.40 – 16.10 **Tobias Donner, Hamburg**

Recurrent cortical processing and normative belief updating

16.15 – 16.45 Coffee and Posters

16.45 – 17.15 **Max-Philipp Stenner, Magdeburg**

Prediction, Precision, and Human Experience of Action

17.20 – 17.50 **Dorothea Hä默er, Magdeburg**

Do I need to care about noradrenaline? - Current insights in its role in learning, memory and brain ageing

**Hansjürgen Matthies Honorary Lecture**

Chair: Klaus Reymann

- 18.30 – 19.30 **Prof. Tim Bliss, Fellow of the Royal Society, London**  
LTP: looking back and looking forward

- 19.30 Meeting Buffet at Herrenkrug

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**Wednesday, March 4 - Herrenkrug**

**Morning Session 9 a.m.**

**3. Perceptual learning and its translatability**

Chairs: Toemme Noesselt & Stefan Pollmann

- 09.00 – 09.30 **Christoph Kayser, Bielefeld**  
The neural mechanisms underlying flexible multisensory behavior
- 09.35 – 10.05 **Takeo Watanabe, Brown University, RI**  
Towards a unified model for perceptual learning
- 10.10 – 10.40 **Michael Beyeler, University of California, Santa Barbara**  
Learning to see again: perceptual learning for sight restoration technologies
- 10.45 – 11.15 Coffee and Posters
- 11.15 – 11.45 **Brigitte Röder, Sophie Rohlf, Alexander Kramer, Lux Lee, Patrick Bruns, Hamburg**  
Audio-visual integration and recalibration in children and adults
- 11.50 – 12.20 **Kristine Krug, Oxford/Magdeburg**  
t.b.a.
- 12.30 – 13.30 Lunch
- 13.30 – 14.30 Poster Time (odd numbers)

**Afternoon Session 2.30 p.m.**

**4. Cellular mechanisms of cognitive resources**

Chairs: Michael R. Kreutz & Oliver Stork

- 14.30 – 15.00 **Amar Sahay, Harvard, MA**  
Inhibitory interneurons, memory interference and indexing
- 15.05 – 15.35 **Elly Nedivi, MIT, MA**  
Visualizing remodeling of excitatory and inhibitory circuits in vivo
- 15.40 – 16.10 **Ileana Hanganu-Opatz, Hamburg**  
From oscillatory hub to psychocell: the spiny maturation of prefrontal neurons
- 16.15 – 17.15 Coffee and Posters
- 17.15 – 17.45 **Christian Lohmann, Amsterdam, NL**  
Learning to see before eye opening: plasticity for wiring the developing visual system
- 17.50 – 18.20 **Janelle Pakan, Magdeburg**  
Active learning shapes fundamental information coding in the visual cortex
- 19.30 Speakers' Dinner at Restaurant "Hadrys" <https://landhaus-hadrys.de/start>  
Bus transfer for speakers from Herrenkrug to the restaurant: departure at 19.00  
return from restaurant to Herrenkrug: 22.00

**Thursday, March 5 - Herrenkrug**

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**Morning Session 9 a.m.**

**5: It's in the timing ...**

Chairs: Bertram Gerber & Frank Ohl

- 09.00 – 09.30 **Aparna Suvrathan, McGill University, Canada**  
Heterogeneous plasticity rules in the cerebellum: from synaptic plasticity to behavior
- 09.35 – 10.05 **Markus Fendt, Magdeburg**  
Timing and valence in event learning of rats
- 10.10 – 10.40 **Yoshinori Aso, HHMI Janelia**  
Diversity of learning rules in *Drosophila* mushroom body circuits
- 10.45 – 11.15 Coffee and Posters
- 11.15 – 11.45 **Sonja Grün, Jülich**  
Spatio-temporal organization of cortical activity
- 11.50 – 12.20 **Warren H Meck, Duke University, NC**  
Towards a unified model of interval timing and reinforcement learning
- 12.30 – 13.30 Lunch
- 13.30 – 14.30 Poster Time

**Afternoon Session 2.30 p.m.**

**6. Synapse beyond the synapse**

Chairs: Daniela Dieterich & Constanze Seidenbecher

- 14.30 – 15.00 **Phil Haydon, Boston, MA**  
t.b.a.
- 15.05 – 15.35 **Maria Andres-Alonso, Hamburg**  
Signaling amphisomes or how autophagy serves synaptic function
- 15.40 – 16.10 **Stephan Sigrist, Berlin** **Serena Dudek, NIH, North Carolina**  
Presynaptic long-term plasticity at the intersection of sleep, memory and aging
- 16.15 – 16.45 Coffee and Posters
- 16.45 – 17.15 **Valentin Nägerl, Bordeaux**  
Nanoscale brain matters
- 17.20 – 17.50 **Serena Dudek, NIH, North Carolina**  
Insights into hippocampal function from studies of synaptic plasticity in area CA2

**18.00 Concluding Remarks, Farewell**

Eckart Gundelfinger/Stefan Remy