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**Monday, March 2 - LIN**

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**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

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**Tuesday, March 3 - Herrenkrug**

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**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    **Jan Born, Tübingen**  
Hippocampal-Neocortical Interactions Underlying Memory Consolidation During Sleep
- 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    **Dr. Michael Lippert**  
Functional Imaging in the Mesolimbic Dopamine System
- 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    **Max-Philipp Stenner, Magdeburg**  
Prediction, Precision, and Human Experience of Action
- 16.15 – 16.45    Coffee and Posters
- 16.45 – 17.15    **Tobias Donner, Hamburg**  
Recurrent cortical processing and normative belief updating
- 17.20 – 17.50    **Dorothea Hämmerer, Magdeburg**  
Do I need to care about noradrenaline? - Current insights in it's 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

### **Wednesday, March 4 - Herrenkrug**

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#### **Morning Session 9 a.m.**

#### **3. Perceptual learning and its translatability**

Chairs: Toemme Noesselt & Stefan Pollmann

- 09.00 – 09.30 **Kristine Krug, Oxford/Magdeburg**  
Dynamic adjustment of strategy in perceptual decision tasks
- 09.35 – 10.05 **Michael Beyeler, University of California, Santa Barbara, CA**  
Learning to see again: perceptual learning for sight restoration technologies
- 10.10 – 10.40 **Takeo Watanabe, Brown University, Providence, RI**  
Towards a unified model for perceptual learning
- 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 **Christoph Kayser, Bielefeld**  
The neural mechanisms underlying flexible multisensory behavior
- 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 **Julijana Gjorgjieva, Munich**  
Emergence of organization and computation in neural circuits
- 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 **Thomas Papouin, St. Louis, MO**  
Cognitive deficits in neuropsychiatric disorders: is the answer in the stars?
- 15.05 – 15.35 **Maria Andres-Alonso, Hamburg**  
Signaling amphisomes or how autophagy serves synaptic function
- 15.40 – 16.10 **Stephan Sigrist, Berlin**  
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