



CBBM Research Day

CBBM Foyer / November 15, 2019

- 10:00 Welcome address
- 10:30 Keynote: Jeff Dalley (University of Cambridge)
Predicting addiction: myth or reality?
- 11:30 Coffee break
- 11:45 Oral presentations I - chair: Helge Müller-Fielitz
- *Svenja Meyhöfer: Glucose-dependent changes on optical parameters*
 - *Mariana Astiz: Clock-dependent prenatal programming of the stress axis in mice*
 - *Marietta Zille: Leveraging the differential susceptibility of neurons and brain endothelial cells for multi-modal therapeutic approaches in intracerebral hemorrhage*
- 12:45 Lunch break
- 14:00 Oral presentations II - chair: Sarah Jessen
- *Ines Wilhelm: Effects of an analogue trauma on subsequent sleep*
 - *Malte Wöstmann: Human brain oscillations implement distractor suppression independent of target selection*
 - *Anne Weißbach: Motor network alterations in patients with combined dystonia syndromes*
- 15:00 Poster session (with coffee/cake)
- 17:00 Keynote: Bente Finsen (University of South Denmark, Odense)
Innate microglia in Alzheimer's disease
- 18:00 Wine reception
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Poster

Poster presenters are asked to be at their poster for at least one hour during the poster session. Those with an even poster number will be at the poster for the first hour, those with an odd poster number will be at the poster for the second hour.

- 1. Jan Wenzel** (Institute for Experimental and Clinical Pharmacology and Toxicology)
Impaired endothelium-mediated cerebrovascular reactivity promotes anxiety and respiration disorders in mice.
- 2. Fanny Eder** (Clinic for Hematology and Oncology)
Extracellular Vesicles: small particles, big impact
- 3. Sebastian Puschmann** (Institute of Psychology I)
Musical training enhances cortical phase-locking while listening to continuous naturalistic speech.
- 4. Christin Krause** (Medical Department I)
Generation of a Type-2-diabetes prediction system based on epigenetic markers from human bio bank samples.
- 5. Sivaraj Mohana Sundaram** (Institute for Experimental and Clinical Pharmacology and Toxicology)
Delivery of functional Monocarboxylate Transporter 8 to the BBB of Mct8/Oatp1c1 DKO mice an animal model for AHDS.
- 6. Malte Wöstmann** (Institute of Psychology I)
Distractor Suppression Uniquely Contributes to the Lateralized Alpha Response in Spatial Attention.
- 7. Leonhard Waschke** (Institute of Psychology I)
Neural desynchronization and arousal differentially shape brain states for optimal sensory performance.

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- 8. Andreas Sprenger** (Institute of Psychology II)
Compensation of age related performance decrease in the visual and vestibular system.
- 9. Hendrik Ungefroren** (Medical Department I)
Rac1 and Rac1b: how two proteins derived from the same gene antagonistically control tumorigenesis.
- 10. Julia Erb** (Institute of Psychology I)
fMRI encoding and decoding of natural sounds in the aging human auditory cortex.
- 11. Jens Kreitewolf** (Institute of Psychology I)
Probing the potential of ABR latency shift in noise as a proxy for hidden hearing loss.
- 12. Svenja Meyhöfer** (Institute for Endocrinology and Diabetes)
Dopamine action on metabolism depending on genetic heterogeneity - a randomized, placebo-controlled double blind study.
- 13. Amaty Mackintosh** (Department of Psychiatry and Psychotherapy)
EEG microstates as a biomarker of transition to psychosis in high-risk patients.
- 14. Mohsen Alavash** (Institute of Psychology I)
Do neural oscillations reconfigure their networks to support adaptive listening behavior?
- 15. Franziska Richter** (Institute for Endocrinology and Diabetes)
Impact of social context on human food choice and eating behaviour.
- 16. Nico Bunzeck** (Institute of Psychology I)
The positive effects of a 4-week cognitive training are not modulated by contextual novelty.
- 17. Juliane Richter** (Section of Psychoneurobiology)
A novel psychological weight loss program leads to sustained body weight reduction and improves satiety perception, emotional eating, stress hormone levels, and psychological pitfalls.
- 18. Tineke Steiger** (Institute of Psychology I)
Novelty processing associated with neural beta oscillations improves recognition memory across the lifespan.
- 19. Dorothea Voß** (Clinic for Anesthesiology and Intensive Care)
Electrophysiological properties of human iPSC-derived dopaminergic neurons.
- 20. Nora Czekalla** (Department of Psychiatry and Psychotherapy)
Effects of social stress on self-related learning processes.

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- 21. Alexandra Sobczak** (Institute of Psychology I)
Alpha-beta oscillations in the human substantia nigra signal the anticipation of appetitive and aversive social reward feedback: evidence from intracranial recordings.
- 22. Isabel Heyde** (Institute of Neurobiology)
Quantifying Zeitgeber strength in mice using the zeitgeber desynchrony (ZD) paradigm.
- 23. David S Stolz** (Department of Psychiatry and Psychotherapy)
Neural Correlates of Dictator Game Choice Behavior in Narcissistic Personality Disorder
- 24. Enrico Leipold** (Clinic for Anesthesiology and Intensive Care)
Ion channel dysfunctions affecting pain sensation.
- 25. Johanna Voges** (Department of Psychiatry and Psychotherapy)
The SoReAl project - on the interplay of stress, immune system and dopaminergic reward system
- 26. Alexandrina Guran** (Institute of Psychology I)
Testing means Improving: Behavioural and Neural Underpinnings of the Retrieval Practice Effect in Young and Older Adults.
- 27. Christina Zechel** (Department of Neurosurgery)
Impact of Retinoic acid and Retinoid-X receptors on proliferation and metabolism of glioma stem cells.
- 28. Paul Siegwardt** (Department of Neurology)
Altered resting-state connectivity in OFC lesion patients.
- 29. Maximilian Kleimaker** (Institute for Neurogenetics)
Increased perception action binding in Tourette syndrome.
- 30. Dana Hellmold** (Department of Neurosurgery)
Role of Pyruvate kinase in Glioma Stem cells
- 31. Annalina Mayer** (Department of Psychiatry and Psychotherapy)
Intranasal oxytocin effects on social cognition and emotion in autism spectrum disorders.
- 32. Martje Pauly** (Institute for Neurogenetics)
Cerebellar plasticity induction – A comparison of four different transcranial, non-invasive stimulation techniques to sham.
- 33. Jan Kruse** (Department of Neurosurgery)
Impact of CrisprCas9 - mediated Knock - Out of Prom1 on glioma stem cells.

- 34. Sonat Aksamaz** (Institute for Experimental and Clinical Pharmacology and Toxicology)
Auditory closed-loop stimulation during sleep in mice modulates hippocampal sharp wave-ripples and cortical activity.
- 35. Thorben Lueg** (Department of Neurosurgery)
Role of PDGF receptors on proliferation and metabolism of glioma stem cells.
- 36. Armin Knaak** (Institute for Endocrinology and Diabetes)
Acute exposure to light at night disrupts sleep architecture but not glucose homeostasis.
- 37. Laura Lokowandt** (Department of Neurology)
Mechanisms of body weight gain in patients with Parkinson's Disease after deep brain stimulation: A cross-sectional and longitudinal study.
- 38. Moritz Lampe** (Institute for Endocrinology and Diabetes)
Infrared thermography as non-invasive method for the assessment of BAT in humans - A technical methods report.
- 39. Pauline Petereit** (Department of Neurology)
Social rejection expectations and social feedback processing - An EEG study.
- 40. Anja Dalmann** (Department of Rheumatology and Clinical Immunology)
Network-based analysis identifies signatures of IgG autoantibodies targeting G protein-coupled receptors and related molecules in health and disease.
- 41. Sonja Binder** (Institute for Experimental and Clinical Pharmacology and Toxicology)
Opto-inhibition of the reuniens during sleep.
- 42. Macià Buades-Rotger** (Department of Neurology)
Neuroendocrine influences on reactive aggression in women with Borderline Personality Disorder
- 43. Ping C. Koo** (Institute for Experimental and Clinical Pharmacology and Toxicology)
Auditory closed-loop stimulation during an afternoon nap enhanced slow oscillation and spindle activity.
- 44. Sarah Jessen** (Department of Neurology)
Does maternal odor influence social perception in the infant brain?
- 45. Cathleen Geißler** (Institute for Epigenetics and Metabolism)
The development of hepatic insulin resistance is associated with alterations of DNA methylation.
- 46. Martin Göttlich** (Department of Neurology)
Reduced amygdala habituation to shame and guilt scenarios in women with borderline personality disorder

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47. Martin Göttlich (Department of Neurology)

Altered resting-state functional connectivity in patients with thyroid hormone resistance due to mutations in the TR β gene

48. Silke Anders (Institute for Psychology II)

A role for a common "neural vocabulary" in building social relations.

49. Carina Robert (Department of Neurology)

A tool kit for inducing Spoonerism related ERPs.

50. Marcus Heldmann (Department of Neurology)

Integration of audio-visual information in the subthalamic nucleus: evidence from local field potential recordings.

51. Yasmine Azza (Department of Psychiatry and Psychotherapy)

Effects of an Analogue Trauma on subsequent Sleep

52. Anna Wick (Department of Psychiatry and Psychotherapy)

Does targeted memory reactivation during sleep promote the reconsolidation of maladaptive memories?

53. Gereon Hüttmann (Institute of Biomedical Optics)

Investigation of cell dynamics in 3D cell spheroids and cell interaction with 3D printed scaffolds by mOCT

54. Gereon Hüttmann (Institute of Biomedical Optics)

Towards optical coherence tomography guided biopsy by using a dynamic needle probe