

Session Program

20-21 Apr 2026



CoBIC Scientific Opening Symposium

Poster Session

Goethe University, Casino Festsaal
Campus Westend Theodor-W.-Adorno-Platz 2 60323 Frankfurt am Main CoBIC Heinrich-Hoffmann-
Straße 9 60528 Frankfurt am Main

Monday 20 April

14:45

Poster Session

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Location: Goethe University, Casino Festsaal, Campus Westend Theodor-W.-Adorno-Platz 2 60323 Frankfurt am Main
CoBIC Heinrich-Hoffmann-Straße 9 60528 Frankfurt am Main

The Neuroanatomy of Adaptive Resilience and Vulnerability in Autism

Speaker

Hanna Seelemeyer

Neuroanatomical and transcriptomic underpinnings of functional aggression subtypes

Speaker

Alessio Giacomel

Mapping Structural Connectome Alterations to Underlying Molecular Signatures in Bipolar Disorder

Speaker

Stefanie Fischer

Central insulin signalling modulates emotional processing in healthy controls and depressed patients

Speaker

Aicha Bouzouina

Characterization of autism subgroups based on their neuroanatomical fingerprints

Speaker

Alexandre Jeanne

Testing Antidepressant TMS Targets Using Network Control Theory

Speaker

Henry Staub

Neurophysiological Research at the Child and Adolescent Psychiatry

Speakers

Anna Katharina Müller, Julia Frey, Dr Leonie Polzer

Two topological axes for temporo-spatial processing in visuomotor control

Speaker

Christian Kell

Neural Correlates of Perceived Humanness in Voice

Speaker

Janniek Wester

Transdiagnostic Multimodal Investigation of Brain Circuits identified through Network Mapping in Psychiatry

Speaker

Marius Gruber

Comprehensive Analysis of Metabolic Dysregulation and Neuropsychiatric Impairments in Long-Covid: Unraveling Mechanisms and Discovering Therapeutic Potential (CARE-MIND)

Speaker

Carmen Uckermark

Geometric Regularities Support Chunking in Visual Working Memory

Speaker

Philipp Deutsch

Investigating plasticity of the prosody and phoneme network in a combined TMS-fMRI design

Speaker

Antonia Ceric

Neural predispositions for musical skill learning in a longitudinal twin study

Speaker

Yu-Hsin (Fiona) Chang

Recruitment and Biotyping Transdiagnostic Risk Mechanisms for Aggressive Behaviours in Mental Disorders across the Life Span (SFB TRR 379 Q01)

Speakers

Mr Antonio An, Ina Kuschel

Representational Dynamics of Phonemes and Prosody along Dual Speech Streams

Speaker

Seung-Cheol Baek

PRECISION: Reduced Working Memory Precision in adult ADHD - A Window into the Abnormal Cortical Signal-to-Noise Ratio

Speaker

Dr Catherine Barnes-Scheufler

An Experimental Investigation of Esketamine's Effects on Dynamic Psychological and Neurobiological Networks in Healthy Participants

Speaker

Lorina Zapf

The Aesthetic Attitude

Speaker

Eugen Wassiliwizky

Towards Linking Brain Perfusion and Angioarchitecture at 7 Tesla

Speaker

Dimo Ivanov

Enabling Translational Brain Imaging: Standardized Data Management, Quality Control, and MRI Processing

Speaker

Markus Aswendt

Early visual cortex stores binding information in working memory

Speaker

Anna Zier

Calculation of synthetic FLAIR images from quantitative T1 and T2 maps with suppression of CSF partial volume and T2-based motion effects**Speaker**

Dr Ulrike Noeth

Dynamic distortion of inferred reward probability shapes choice over time**Speaker**

Dr Matthias Grabenhorst

MUGEN: Ultra-High-Field Multimodal Imaging of Musical Expertise**Speaker**

Ana Clemente

Deep Phenotyping of Affective Experiences Evoked by Music: "ManyMusic "**Speaker**

Dr Seung-Goo Kim

Quantification of lactate, glutathione, and GABA in metastatic lesions with MEGA-sLASER at 3 Tesla**Speaker**

Andrei Manzhurtsev

In Vivo Characterization of the Redox Balance in IDH-Wildtype Glioblastomas using J-difference Edited MEGA-sLASER MRS at 3T**Speaker**

Seyma Alcicek

Quantitative MRI-based Prediction of Contrast Enhancement in Brain Tumors using Deep Learning**Speaker**

Dennis C. Thomas

AI-based analyses of multi-center, multi-parametric quantitative MRI studies in brain tumor patients with the aim of optimizing diagnosis and treatment**Speaker**

Katharina J. Wenger

Spectral Transfer Entropy Reveals Predictive-Coding Network Dynamics in Marmosets**Speaker**

Felix Körber

PSYCH-GPT: Brain-LLM Alignment in Psychiatric Disorders**Speaker**

Hendrik Kröger

Decoding Layer-Specific Memory and Context Signals in the Medial Temporal Lobe and Visual Cortex with 7T fMRI**Speaker**

Dingrong Guo

Neural alignment of knowledge structures supports reasoning**Speaker**

Rebekka Tenderra

Paradoxical responses in auditory pitch control - tracking surprisal about sensorimotor contingencies with MEG**Speaker**

Johannes Kasper

Predicting Neuroanatomical Brain Phenotypes in Autism and ADHD from Genomic Signatures**Speaker**

Bassem Hermila

Brain mechanisms in creativity: Musical improvisation as a window into the creative mind**Speaker**

Kanthida van Welzen

Investigating neurophysiological markers of psychological flow during piano playing**Speaker**

Pegah Yahaghi

Competing acoustic landmarks reveal a dissociation between timing and stability in sensorimotor synchronization**Speaker**

Dr Yue Sun

ARENA Language dataset: An MEG/fMRI dataset for investigating language processing in the brain across contexts and modalities**Speaker**

Cosimo Iaia

A Normative Reference Framework for Resting-State Network Connectivity in Psychiatry**Speaker**

Franka Timm

The Effect of Song on Long-term Memory for Continuous Narratives**Speaker**

Caroline Kellner

Inside the MEG Lab: Capturing Brain Dynamics in Real Time**Speakers**

Tea Bogdanovic, Mathias Groothuis, Marlon Schütz

Stable neural fingerprints of resting-state EEG relate to cognitive reappraisal**Speaker**

Anya Dietrich

Individual speech tracking is predicted by intrinsic profiles of auditory and motor areas

Speaker
Dr Johanna Rimmele

Tracing Semantic Trajectories in ADHD

Speaker
Kamil Piwowar

Cortical Patterns of Gene Expression as a Predictor of Drug-Behavior Relationships

Speaker
Franziska Müller

Autofast - neurometabolic effects of prolonged fasting in depression

Speaker
Paul Forbes

16:15