



Selection of Symposia 2025

A neurobiological and computational framework for understanding the complex sensory symptoms of autism

Chairs: Andreas Frick and Susanne Schmid | Bordeaux, France and London, Canada

Assessing neuronal excitability and sensory neuron subclasses using Patch-seq

Chair: Angelika Lampert | Aachen

Big science, big challenges, and the diversity of life sciences - where does neuroscience go?

Chairs: Andreas Draguhn and Constanze Seidenbecher | Heidelberg and Magdeburg

Brain organoids for modelling immune-neural interactions in epilepsy

Chair: Andreas Chiocchetti | Frankfurt

Building blocks of the brain: insights into CNS circuits and ultrastructure

Chairs: Matthias Haberl and Martina Schifferer | Berlin and München

Circuits for behavior: cross-species strategies for adaptation and plasticity

Chairs: Graziana Gatto and Jan Gründemann | Köln and Bonn

Current advances of extracellular vesicles in CNS-cell interaction and brain-periphery communication

Chairs: Eva-Maria Krämer-Albers and Christian Neri | Mainz and Paris, France

Dendritic inhibition - role in network dynamics, memory and behavior

Chairs: Marlene Bartos and Jörg Geiger | Freiburg and Berlin

Early dysfunction of the locus coeruleus noradrenergic system in neurodegenerative diseases

Chairs: Sabine Liebscher and Lars Paeger | Martinsried and München

Evolution of behavior: from genes to circuits

Chairs: James Lightfoot and Monika Scholz | Bonn

Extracellular matrix alterations in aging and neurological diseases

Chairs: Alexander Dityatev and Egor Dzyubenko | Magdeburg and Essen

From olfaction to emotions

Chairs: Tobias Ackels and Sabine Krabbe | Bonn

Glia-neuron interactions sculpting functional circuit architecture; insights from genetic animal models

Chairs: Christian Klämbt and Georgia Rapti | Münster and Heidelberg

How the nervous system builds and maintains myelin

Chairs: Amit Agarwal and Minou Djannatian | Heidelberg and München

Investigating memory using human single-neuron recordings

Chairs: Alana Darcher and Ilona Vieten | Bonn

Mechanisms of reperfusion-failure after cerebral ischemia

Chair: Nikolaus Plesnila | München

Modelling CNS recovery from autoimmune neurodegeneration

Chairs: Alexander Flügel and Dorde Miljkovic | Göttingen and Belgrade, Serbia

Multilevel human brain mapping and atlas as a tool connecting micro - and macro-structures

Chairs: Alexey Chervonnyy and Nataliia Fedorchenko | Düsseldorf

Neural circuits and decision strategies for behavioral trade-offs

Chairs: Madhura Ketkar, Carlotta Martelli and Luisa Ramirez | Göttingen and Mainz

Neural circuits for flexible social behavior

Chairs: Jan Clemens and Frederic Römschied | Oldenburg and Göttingen

Neuronal circuits, energy state and eating disorders

Chairs: Robert Chesters and Rachel Lippert | Nuthetal

Neuronal representation of space, directions and goals in insects and vertebrates

Chairs: Hannah Haberkern and Keram Pfeiffer | Würzburg



New perspectives on the locus coeruleus - noradrenergic activity during sleep and its role in memory function

Chairs: Oxana Eschenko and Sara Mednick | Tübingen and Irvine, USA

Non-canonical contribution of oligodendrocyte precursors in brain circuits

Chairs: Xianshu Bai and Friederike Pfeiffer | Homburg and Tübingen

Prefrontal mechanisms of adaptive cognitive behaviors in health and disease

Chairs: Ilka Diester and Artur Schneider | Freiburg

Sensing LOOPS: cortico-subcortical interactions for adaptive sensing, perception and learning

Chairs: Julio Hechavarria and Markus Rothermel | Frankfurt am Main and Magdeburg

Sex, glia and disease: understanding sex-specific glia biology in health and disease

Chairs: Barbara Di Benedetto and Julia Schulze-Hentrich | Regensburg and Saarbrücken

Social immunity as defense against diseases: from sensory biology to collective animal behavior

Chairs: Giovanni Galizia and Valerie Kuklovsky | Konstanz

The 4th dimension of plasticity: extracellular matrix interplay with neurons and glia at the synapse

Chairs: Svilen Georgiev and Silvio Rizzoli | Göttingen

The endocrine brain: shaping women`s mental health during hormonal transitions

Chair: Erika Comasco and Birgit Derntl | Uppsala, Sweden and Tübingen

The listening brain: frontiers in auditory cognition and health

Chair: Marcus Jeschke | Göttingen

The role of co-proteinopathies in neurodegenerative diseases: bystander or disease driver?

Chairs: Evgeni Ponimaskin and Franziska Richter Assencio | Hannover

Visual processing in social behaviors

Chairs: Clara Ferreira, Johannes Larsch and Inês M.A. Ribeiro | Newcastle-upon-Tyne, United Kingdom, Lausanne, Switzerland and München

Wired for motion: perspectives on motor control

Chairs: Jonas Fisch and Lena Lion | Kaiserslautern