

DAY 1

Monday, March 23rd, 2026

12:00 REGISTRATION OPENS

YOUNG INVESTIGATOR SYMPOSIUM

13:00 WELCOME YIS Organizers

13:05 **MARTIN POFAHL (Kavli Institute for Systems Neuroscience, Norway)**
„A hot spot of grid cells in the medial entorhinal cortex“

13:20 **SAMUEL ECKMANN (University of Cambridge, UK)** „Anti-Hebbian plasticity protects against memory interference“

13:35 **Nicole Hoffmann (University of Bonn, Germany)** „Mechanism underlying rapid astrocytic morphology changes after long-term potentiation in the CA1 hippocampal region“

13:50 **Carlo Castoldi (Université Côte d'Azur, France)** „ABBA+BraiAn, a novel open-source pipeline for 2D to 3D whole-brain mapping“

14:05 **Short break**

14:15 **Karen Yu Chen Cheng (University of Bonn, Germany)** „Locomotor modulation of olfactory processing in *Drosophila melanogaster*“

14:30 **Carina Seidl (Institute of Molecular Biotechnology, Austria)** „Restoring motor circuit function during axolotl spinal cord regeneration“

14:45 **Jens-Bastian Eppler (Centre de Recerca Matemàtica, Spain)** „Representational similarity is preserved during representational drift in random networks“

15:00 **Julia Schnermann (Forschungszentrum Jülich, Germany)** „Neuroanatomy of the visual pathway of the harbour seal (*Phoca vitulina*) brain“

15:15 **Voting and Coffee break**

CAREER SESSION

15:45 **LEONIE WELBERG (Nature Neuroscience; London, UK)**
„Behind the scenes at Nature Neuroscience“

17:00 **Coffee break**

17:30 **WELCOME ADDRESS**
Bettina Schnell, Martin Fuhrmann, Tobias Rose & Sabine Krabbe

17:40 **OPENING KEYNOTE LECTURE: „Organizing behavior across scales“**
CORI BARGMANN (Rockefeller University, USA)
Chair: Monika Scholz

18:45 **POSTERBLITZ** Selected poster highlights

19:15 **Welcome Reception and Special Highlights Poster Session**

DAY 2

Tuesday, March 24th, 2026

LEARNING & MEMORY

09:00 **KEYNOTE LECTURE**
„**Neural computation of space: From single cells to neural populations**“
EDVARD MOSER (Kavli Institute, Norway)
Chair: Tobias Rose

10:00 **Coffee break**
SYMPOSIUM Stefanie Poll

10:30 **INNA SLUTSKY (Tel Aviv University, Israel)** „Homeostasis of activity in hippocampal circuits: From basic principles to malfunctions“

11:00 **ABHILASHA JOSHI (National Center for Biological Sciences, India)**
„Learning requires precise hippocampal timing during locomotion“

11:30 **DMITRIY ARONOV (Columbia University, USA)**
„Using food-caching chickadees to study the neuroscience of episodic memory“

12:00 **LUKAS ANNESER (Friedrich Miescher Institute for Biomedical Research, Switzerland)** „Semantic segmentation of space in the adult zebrafish pallium“

12:15 **DAVID WOLF (University of Bonn, Germany)**
„Single neurons in the human parahippocampal cortex represent spatial distances“

12:30 **Sponsor flash talk – BRUKER**

12:35 **LUNCH** coffee & dessert at posters

13:15 **POSTER SESSION 1**

SENSORY SYSTEMS

SYMPOSIUM Chair: Tobias Ackels

- 15:00** **RUBEN PORTUGUES (Cornell University, USA)** „The heading direction system in larval zebrafish“
- 15:30** **LAURA BUSSE (LMU, Germany)** „Thalamo-Cortico-Thalamic Loops: Shaping Visual Processing and Behavior“
- 16:00** **KISHORE KUCHIBHOTLA (Johns Hopkins University, USA)** „The neural basis of flexible, lifelong learning“
- 16:30** **TAMAS DALMAY (Institute of Molecular and Clinical Ophthalmology Basel, Switzerland)** „Joint visual-vestibular computation of head direction and reflexive eye movement“
- 16:45** **PASCAL MALKEMPER (MPINB, Bonn)**
„Absence of the Earth’s magnetic field induces stress in a mammal“
- 17:00** Sponsor flash talk – **TRANSVISTA**
- 17:05** Coffee Break
- 17:30** **KEYNOTE LECTURE:** „Functional evolution of the taste and digestive system“
MAUDE BALDWIN (MPI for Biological Intelligence, Germany)
Chair: Bettina Schnell
- 18:30** Dinner (Speaker’s Dinner 19:00 off-site)
- 20:00** Shake the Brain Party

- 10:30** **LONG-JUN WU (University of Texas Health Science Center at Houston, USA)** „Rod-shaped microglia regulate neuronal activity and protect against TDP-43 neurodegeneration“
- 11:00** **RUNE ENGER (University of Oslo, Norway)** „Elucidating gliovascular interactions in sleep“
- 11:30** **ANIA MAJEWSKA (University of Rochester, USA)** „Purinergic and noradrenergic signaling in microglia in health and disease“
- 12:00** **MELANIA CAPASSO (DZNE Bonn, Germany)** „Aged microglia alter their protein homeostasis in a mTORC1-dependent fashion“
- 12:15** **SILVIA VIANA DA SILVA (Charité and DZNE Berlin, Germany)** „Inhibitory interneurons participate in reactivated memory engrams during sharp wave ripple replay“
- 12:30** Sponsor flash talk – **LIGHT CONVERSION**
- 12:35** Lunch coffee & dessert at posters
- 13:15** **POSTER SESSION 2**

NEUROMODULATION

SYMPOSIUM Chair: Jan Gründemann

- 15:00** **SARAH MELZER (Medical University of Vienna, Austria)**
„Neuromodulation of neuronal and nonneuronal cells in cortical fear processing“
- 15:30** **CAROLINA REZAVAL (University of Birmingham, UK)**
„Decoding Competition in the Brain“
- 16:00** **JOSH DUDMAN (HHMI Janelia, USA)** „Dopamine balances rapid learning with stable performance through dynamic modulation of learning rate“
- 16:30** **ISABEL BEETS (KU Leuven, Belgium)**
„Experience-dependent plasticity of the neuropeptide signaling network“
- 16:45** **OLEG TOLSTENKOV (Michael Sars Center University of Bergen, Norway)**
„A minimal parasite circuit includes autonomous units: a tractable cellular-resolution model for comparative neurobiology and drug discovery“
- 17:00** Coffee break
- 17:30** **KEYNOTE LECTURE:** „Control of ingestion by the caudal brainstem“
ZACHARY KNIGHT (UCSF, USA) Chair: Sabine Krabbe
- 18:30** **AWARDS & FAREWELL**
Bettina Schnell, Martin Fuhrmann, Tobias Rose & Sabine Krabbe

DAY 3

Wednesday, March 25th, 2026

NEUROGLIA INTERACTIONS

- 09:00** **KEYNOTE LECTURE:** „Microglia across the lifespan: from brain maturation to neurodegeneration“ **ROSA PAOLICELLI (University of Lausanne, Switzerland)**
Chair: Martin Fuhrmann
- 10:00** Coffee break
SYMPOSIUM Chair: Christian Henneberger