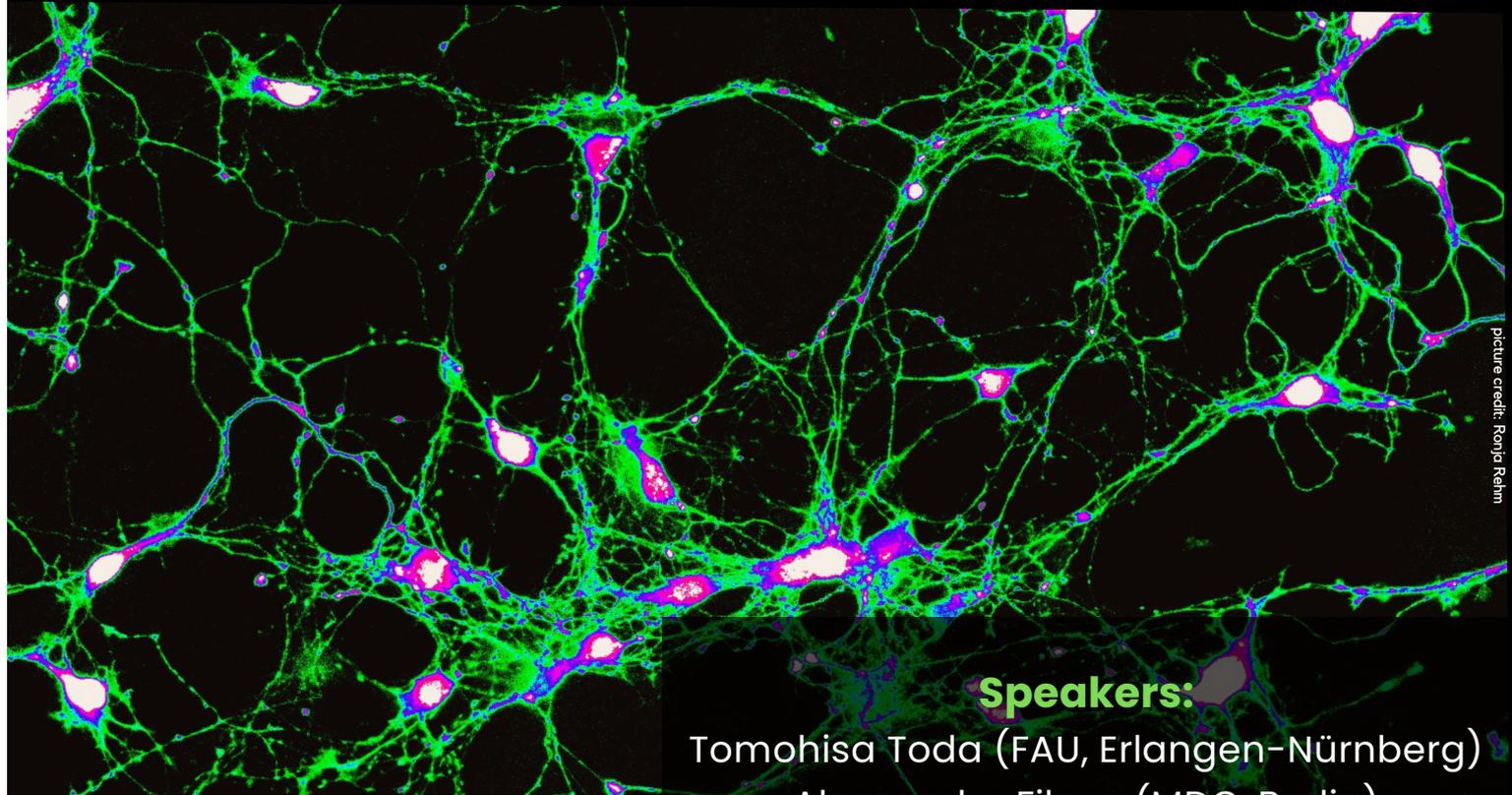


8th Schram Foundation Symposium

FROM MOLECULAR THREADS TO BRAIN NETWORKS: *THE EVOLUTIONARY TAPESTRY OF COGNITION*



picture credit: Ronja Rahm

Speakers:

Tomohisa Toda (FAU, Erlangen-Nürnberg)
Alessandro Filosa (MDC, Berlin)
Petra Wahle (RUB, Bochum)
Britta Qualmann (Friedr. Schil. Univ., Jena)
Marlene Bartos (University of Freiburg)

Keynote lectures:

Pawel Burkhardt
(University of Bergen, Norway)

Anne Schäfer
(MPI for Biology of Ageing)

The conference is complimentary, and no registration is necessary



TUESDAY
25 MARCH 2025



1 PM-7 PM

Lecture Hall,
MPINAT City-Campus
Hermann-Rein-Straße 3,
Göttingen



Chairs:
Eugenio F. Fornasiero
efornas@gwdg.de
Benjamin H. Cooper
cooper@mpinat.mpg.de



Satellite Symposium of the Meeting of the German Neuroscience Society ATTENDANCE IS FREE OF CHARGE
www.schram-stiftung.de/symposien

8th Schram Foundation Symposium

“FROM MOLECULAR THREADS TO BRAIN NETWORKS: THE EVOLUTIONARY TAPESTRY OF COGNITION”

CHAIRS: EUGENIO F. FORNASIERO and BENJAMIN H. COOPER

Lecture Hall, MPINAT City-Campus Hermann-Rein-Straße 3, Göttingen

The Schram Foundation, founded by Dr. Armin Schram, has been supporting basic neuroscience research for more than 20 years.

Traditionally held as a satellite event of the biennial meeting of the German Neuroscience Society, the 8th Schram Foundation Symposium will feature a selection of recently funded projects, talks by former awardees, and two distinguished keynote speakers who will enrich the scientific program. Reflecting the interdisciplinarity of modern neuroscience, the program will present the latest research on the functional nervous system, exploring aspects ranging from molecular mechanisms and synaptic dynamics to brain connectivity and epigenetic regulatory processes underlying complex functions such as cognition. This diverse range of topics will be covered by seven researchers who are prominent in their respective fields, each bringing unique insights into the cellular, molecular, and network level processes that shape brain function and behavior.

The symposium will begin with a keynote lecture by **Pawel Burkhardt**, whose research has focused on the evolution of synapses, tracing the formation of these fascinating structures from the simplest organisms in which neuronal communication occurs. This is followed by contributions from **Tomohisa Toda**, whose research focuses on neurogenesis, brain epigenetics and RNA biology, and **Alessandro Filosa**, who uses zebrafish to study neuronal signaling and neuromodulation. Three previous awardees, **Petra Wahle**, **Britta Qualmann** and **Marlene Bartos**, will further enrich the meeting by addressing a variety of topics such as the role of microglia and autophagy in shaping neuronal networks and promoting plasticity. The symposium will conclude with a keynote lecture by **Anne Schäfer**, who will discuss how miRNAs and histone modifying enzymes contribute to the establishment and maintenance of neuronal identity and specialized functions.

The conference is complimentary, and no registration is necessary

Satellite Symposium of the Meeting of the German Neuroscience Society ATTENDANCE IS FREE OF CHARGE

www.schram-stiftung.de/symposien

8th Schram Foundation Symposium

PROGRAM

13:00 Welcome and Opening Remarks Eckart D. Gundelfinger, Magdeburg

13:10 Pawel Burkhardt (University of Bergen, Norway)

THE DEEP EVOLUTIONARY ORIGINS OF NEURONS AND NERVOUS SYSTEMS

13:55 Tomohisa Toda (FAU, Erlangen-Nürnberg)

LONG-LIVED RNAs IN THE MAMMALIAN BRAIN

14:25 Alessandro Filosa (Max Delbrück Center for Molecular Medicine, Berlin)

HYPOTHALAMIC NEUROPEPTIDERGIC CIRCUITS CONTROLLING STRESS

14:55 Coffee Break and Poster Session

15:50 Petra Wahle (RUB, Bochum)

ACTIVITY-DEPENDENT GROWTH OF DENDRITES AND AXONS OF CORTICAL INTERNEURONS

16:20 Britta Qualmann (Friedrich Schiller University, Jena)

MEMBRANE SHAPING IN NEURONAL MORPHOGENESIS AND FUNCTION

16:50 Marlene Bartos (University of Freiburg)

THE ROLE OF DENTATE GYRUS INTERNEURONS IN ENCODING CONTEXTUAL INFORMATION

17:35 Coffee Break

18:05 Anne Schäfer (MPI for biology of Ageing, Cologne)

OPERATIONAL PRINCIPLES OF MICROGLIA-NEURON CIRCUITS

18:50 Closing Remarks Dorothea Schulte, Frankfurt/Main