New Location!!!

4th Schram Foundation Symposium
"The molecular basis of neuronal circuit formation and function"

Tuesday March 17, 2015

13:00-19:00, Paulinerkirche (Papendiek 14, 37073 Göttingen)

13:00 **Opening Remarks** (Heinrich Betz / Eckart Gundelfinger)

13:10 **Peter Jonas (IST Austria)** THE SYNAPTIC MECHANISMS OF PATTERN COMPLETION

14:05 **Christian Rosenmund (Charité Berlin)** REGULATION OF NEUROTRANSMITTER RELEASE BY VESICULAR GLUTAMATE TRANSPORT

14:35 **Marlene Bartos (Albert-Ludwigs-Universität Freiburg)** JOINT CP-AMPA AND GROUP I mGLU RECEPTOR ACTIVATION IS REQUIRED FOR SYNAPTIC PLASTICITY IN DENTATE GYRUS FAST-SPIKING INTERNEURONS

15:05 coffee break and poster session

16:00 M**ichael Kreutz (Leibniz Institut Magdeburg)** WHEN SYNAPTIC PROTEINS MEET THE GENOME - PROTEIN TRANSPORT FROM SYNAPSE TO NUCLEUS

16:30 **Michael Kiebler (Ludwig-Maximilians-Universität München)** NEW AND UNEXPECTED FUNCTIONS OF THE RNA-BINDING PROTEIN STAUFEN2 IN THE CNS

17:00 **Carmen Ruiz de Almodovar (Ruprecht-Karls-Universität Heidelberg)** NEURO-VASCULAR COMMUNICATION IN THE CENTRAL NERVOUS SYSTEM

17:30 break and poster session

17:50 **Rüdiger Klein (MPI für Neurobiologie, Martinsried)** THE MOLECULAR LOGIC OF AXON GUIDANCE

18:45 **Closing remarks** (Heinrich Betz / Eckart Gundelfinger)

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Introductory remarks

Dorothea Schulte and Marlene Bartos (Frankfurt/Main and Freiburg)

The Schram Foundation, initiated in 2000 through a generous donation by Dr. Armin Schram, supports basic research in molecular and cellular neuroscience in Germany. To date, nineteen project grants have been awarded to independent laboratories across Germany that study questions as diverse as the regulation of gene expression during neuronal differentiation and -aging, intracellular transport in neurons, synapse formation, -function and -plasticity, or the mechanisms that underlie neuronal network formation in the brain. By these means, the Schram Foundation strives to contribute to a better understanding of the molecular, structural, and functional basis of higher brain operations.

Since 2009, the Schram Foundation hosts a Satellite Symposium to the biennial meeting of the German Neuroscience Society in Göttingen at which results of current and past projects funded by the Foundation are presented. Keynote lectures closely related to the topic of the meeting open and close the symposium. Following this tradition, the 2015 Schram Symposium will be opened by a keynote lecture given by Peter Jonas (Klosterneuburg) who will give novel insights into synaptic mechanisms of pattern completion. Christian Rosenmund (Berlin) will report regulatory mechanisms of neurotransmitter release, followed by Marlene Bartos (Freiburg) who will discuss Ca^{2+}-permable AMPA and metabotropic glutamate receptors in the regulation of synaptic plasticity in the hippocampus. The second session will be opened by Michael Kreutz (Magdeburg) who will share his recent work on the transport of proteins from the synapse to the cell nucleus, while Michael Kiebler's (München) presentation focuses on novel roles of the RNA-binding protein Staufen2. He will be followed by Carmen Ruiz de Almodovar (Heidelberg) who will shed light on the communication between the neuronal and vascular systems in the brain. The symposium will be closed by a keynote lecture by Rüdiger Klein (Martinsried) who will discuss the molecular logic of axon guidance in the central nervous system.

Attendance of the symposium is complimentary.

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