

International Symposium

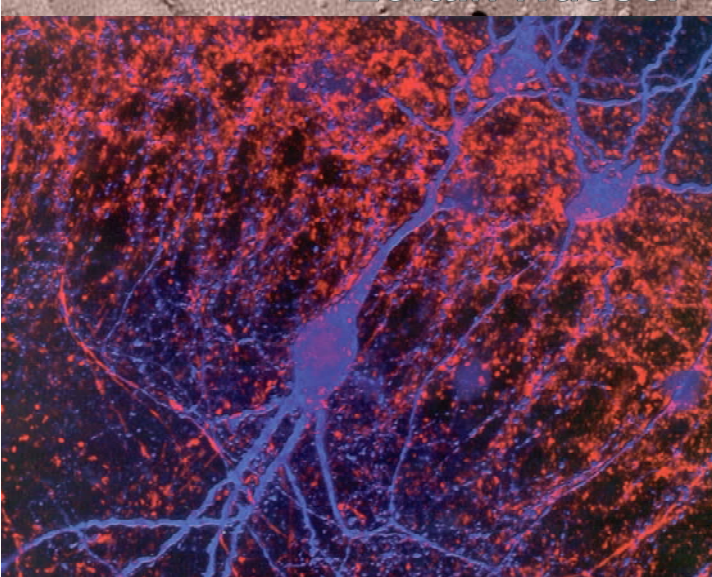
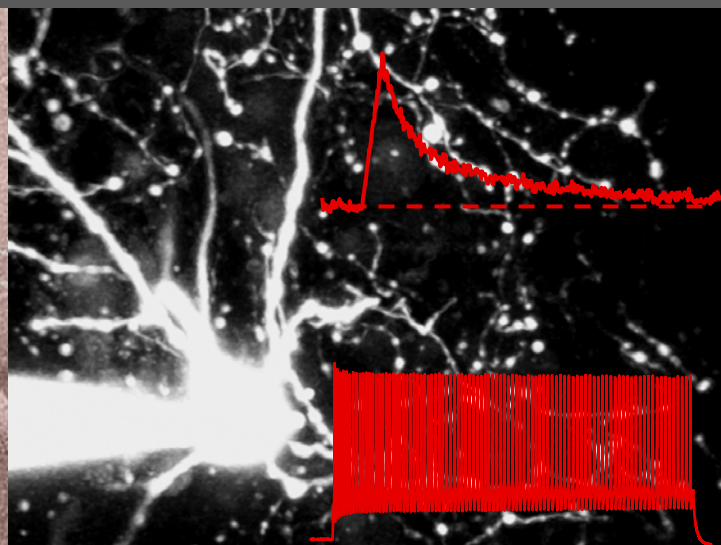
Program

Structure and Function of Synapses

04 – 05 December 2009, Lecture Hall Physiology
Freiburg, Germany

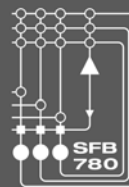


Daniel Choquet
Winfried Denk
Andreas Draguhn
Michael Frotscher
Olga Garaschuk
Joachim Herz
Peter Jonas
Nikolaj Klöcker
Dimitri Kullmann
Zoltan Nusser



Thomas Reese
Jens Rettig
Bernardo Sabatini
Menahem Segal
Ryuichi Shigemoto
Stephan Sigrist
Ivan Soltesz
Antoine Triller
Richard W. Tsien

Sonderforschungsbereich 780 - Albert-Ludwigs-Universität Freiburg
Organization: Peter Jonas and Michael Frotscher
Deadline for Registration: 20 November 2009
www.sfb780.uni-freiburg.de



Friday, 04 December 2009

09:00 Opening Remarks - Peter Jonas, Coordinator of the SFB 780, Freiburg

Exocytosis and postsynaptic receptors - Chairman: J. Rettig

09:05 **Richard W. Tsien**, Stanford
Bringing added dimensions to dynamic tracking of single presynaptic vesicles

09:45 **Thomas Reese**, Bethesda
PSD-95 is the linchpin of the post-synaptic density

10:15 **Jens Rettig**, Homburg
Quantifying prefusion steps of LDCVs in chromaffin cells

10:45 [Coffee break](#)

11:30 **Nikolaj Klöcker**, Freiburg
Cornichons – Surprising auxiliaries of AMPA receptors

12:00 **Daniel Choquet**, Bordeaux
Fast receptor diffusion for a fast excitatory neurotransmission

12:30 **Ryuichi Shigemoto**, Okazaki
Dynamic localization of synaptic and extrasynaptic glutamate receptors during physiological learning processes

13:00 **Antoine Triller**, Paris
Plasticity of synaptic inhibition driven by lateral diffusion

13:30 [Lunch](#)

Glutamatergic synapses - Chairman: M. Frotscher

14:30 **Stephan Sigrist**, Berlin
Shedding light on synapse assembly

15:00 **Michael Frotscher**, Freiburg
Structures underlying function of hippocampal mossy fiber synapses

15:30 **Winfried Denk**, Heidelberg
Dense reconstruction of neural circuit, aka connectomics

16:00 [Coffee break](#)

16:45 **Short talks**

17:15 **Menahem Segal**, Rehovot
Calcium stores and synaptic plasticity in cultured hippocampal neurons

19:30 [Symposium Dinner at Schlossbergrestaurant Dattler - speakers and invited guests](#)

Saturday, 05 December 2009

- 09:00 **Bernardo Sabatini**, Boston
Neuromodulation of spine Ca signaling
- 09:30 **Joachim Herz**, Freiburg/Dallas
ApoE and ApoE receptors as synaptic modulators

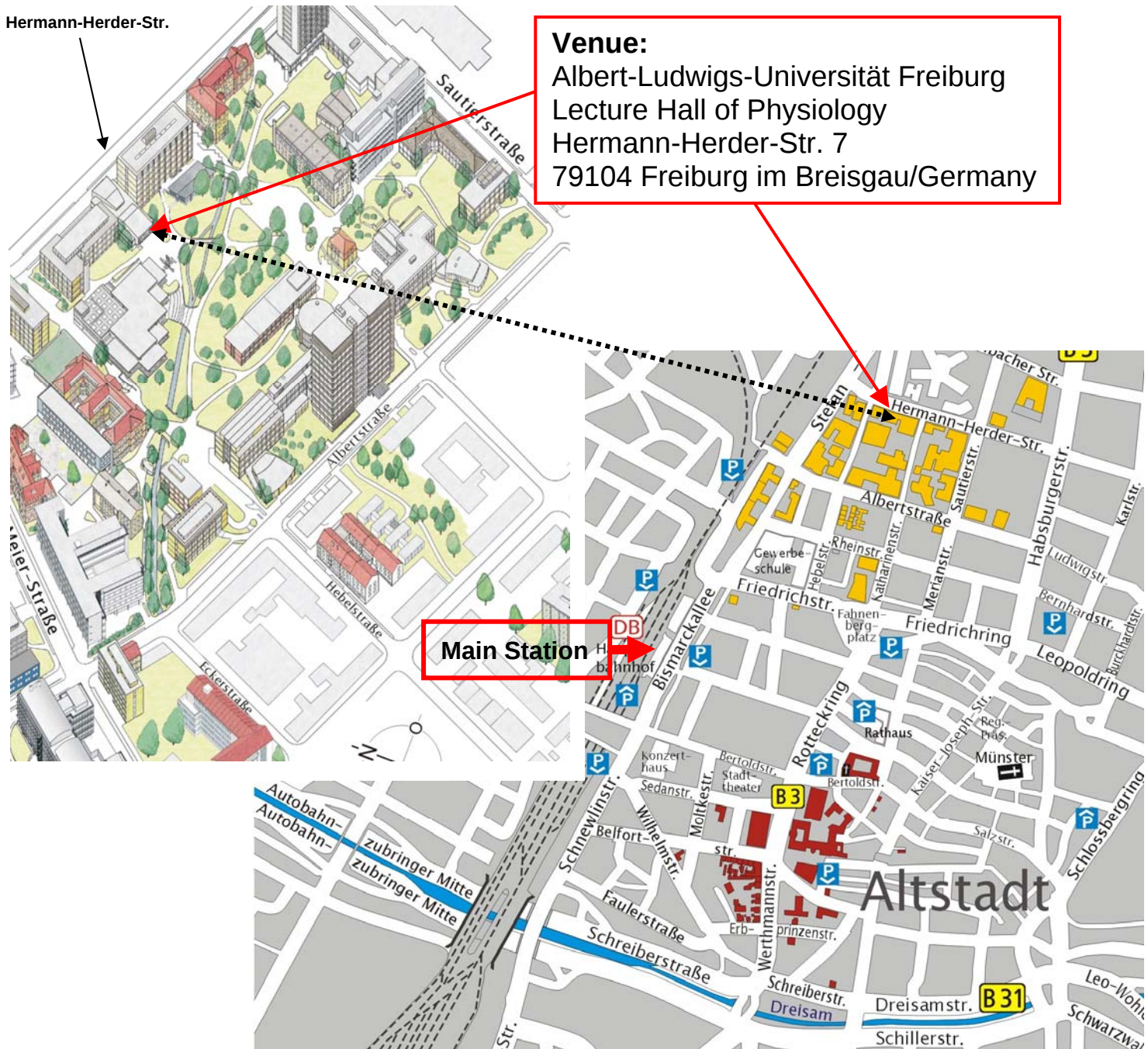
GABAergic synapses and interneurons - Chairman: A. Draguhn

- 10:00 **Peter Jonas**, Freiburg
Structural and functional determinants of dendritic integration in fast-spiking GABAergic interneurons
- 10:30 [Coffee break](#)
- 11:00 **Zoltan Nusser**, Budapest
Structure and function of GABAergic synapses in the main olfactory bulb
- 11:30 **Olga Garaschuk**, Tübingen
In vivo function of juxtaglomerular neurons in the mouse olfactory bulb
- 12:00 [Lunch](#)
- 13:00 **Andreas Draguhn**, Heidelberg
Homeostatic plasticity of GABAergic transmission
- 13:30 **Ivan Soltesz**, Irvine
Cell-type specific gating of perisomatic inhibition
- 14:00 **Dimitri Kullmann**, London
GABA_A receptors can be tonically active, presynaptic, excitatory, and all three at once
- 14:30 Closing Remarks – Michael Frotscher, Freiburg

With kind support by:



SFB 780 is supported by DFG since 2008



Organization:

SFB 780

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