

Name SCHWENK, Jochen Born: September 8 th , 1976	Position Title Senior scientist Institute of Physiology University of Freiburg
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EDUCATION/TRAINING

Institution and Location	Degree	Year(s)	Field of Study
University of Freiburg, Institute of Physiology University of Stuttgart	Dr. rer. nat. Diploma	2007 2003	Biochemistry, Physiology Technical Biology

A. Positions and Honours

Employment/Experience

2008-present	Senior scientist, Institute of Physiology II, University of Freiburg
2007-2008	Postdoc, Institute of Physiology II, University of Freiburg
2003-2007	Research fellow, member of the international Graduate School "Mechanisms of neuronal signal transductions", University of Freiburg
2002-2003	Research assistant, Fraunhofer Institute for Interfacial Engineering and Biotechnology, Stuttgart, Member of the junior research group "Protein-Screening"
2001	Research assistant, Institute of Biochemical Engineering, University of Stuttgart

Honors, Awards and Scholarships

2004	Hugo-Geiger Prize, Fraunhofer Society, Germany
2003-2007	PhD student scholarship, DFG Graduate School GRK847

Other Scientific Activities

Member, German Society for Biochemistry & Molecular Biology

B. Selected Publications

High-resolution quantitative analysis of the subunit composition of native AMPA receptor complexes. Schwenk J, Harmel N, Brechet A, Zolles G, Berkefeld H, Müller C, Bildl W, Baehrens D, Hüber B, Kulik A, Klöcker N, Schulte U, Fakler B, submitted (2011).

Native GABA(B) receptors are heteromultimers with a family of auxiliary subunits. Schwenk J, Metz M, Zolles G, Turecek R, Fritzius T, Bildl W, Tarusawa E, Kulik A, Unger A, Ivankova K, Seddik R, Tiao JY, Rajalu M, Trojanova J, Rohde V, Gassmann M, Schulte U, Fakler B, Bettler B (2010). *Nature* 465(7295):231-5.

Functional proteomics identify cornichon proteins as auxiliary subunits of AMPA receptors. Schwenk J, Harmel N, Zolles G, Bildl W, Kulik A, Heimrich B, Chisaka O, Jonas P, Schulte U, Fakler B, Klöcker N (2009). *Science* 323(5919):1313-9.

NMR analysis of KCHIP4a reveals structural basis for control of surface expression of Kv4 channel complexes. Schwenk J, Zolles G, Kandias NG, Neubauer I, Kalbacher H, Covarrubias M, Fakler B, Bentrop D (2008). *J Biol Chem.* 283(27):18937-46.

Getting in touch with *Candida albicans*: the cell wall of a fungal pathogen. Sohn K, Schwenk J, Urban C, Lechner J, Schweikert M, Rupp S (2006). *Curr Drug Targets* 7(4):505-12.

C. Research Interest

The way neurons are connected to each other is important for the regulation of information processes in our brain. Synapses are specialized contact sites where signals are propagated from cell to cell. Neurotransmitter-activated receptors are important players in synaptic signaling. Applying proteomic approaches we unravel the molecular composition of native receptors, e.g. ionotropic Glutamate and G-protein coupled GABA receptors. Further, we will use a set of biochemical and biophysical techniques to analyze the assembly of receptor complexes and to characterize the role of newly identified components and protein protein interactions.