

CURRICULUM VITAE – DR. JAKOB WOLFART

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ACADEMIC BACKGROUND AND RESEARCH SUBJECTS

- 12/2004 – Today **Universitätsklinikum Freiburg, Dept. of Neurosurgery, Freiburg, Germany**
Assistant Professor and leader of independent research group Cellular Neurophysiology
Subjects: Mechanisms of signal integration in neurons, role of dentate gyrus in epilepsy
- 09/2002 – 11/2004 **Centre National de la Recherche Scientifique (CNRS), Gif-sur-Yvette, France**
Unité de Neurosciences Information et Complexité, Dr. T. Bal
Marie-Curie postdoctoral fellow: Effect of synaptic noise on spike transfer in thalamic neurons
- 09/1999 – 06/2002 **Oxford University, Medical Research Council (MRC), Oxford, U.K.**
Anatomical Neuropharmacology Unit, Prof. P. Somogyi, Prof. J. Roeper
Dissertation: Control of electrical activity in dopaminergic midbrain neurons
26.10.2002 **PhD degree (D.Phil. at Oxford University)**
- 03/1998 – 08/1999 **Center for Molecular Neurobiology Hamburg (ZMNH), Hamburg University, Germany**
Institute of Neural Signal Transduction, Prof. O. Pongs
Research project: K⁺ channels in striatal neurons of Kv β 1.1 knockout mice
- 04/1997 – 12/1997 **Hamburg University, Dept. of Neurophysiology, Hamburg, Germany**
Master Thesis: Patch-clamp analysis of ligand-activated currents in locust optic lobe neurons
02.01.1998 **MSc degree (Dipl. Biol., Hamburg University)**
- 03/1996 – 05/1996 **University of California at San Diego (UCSD), CA, USA**
Scripps Institution of Oceanography, Prof. T. H. Bullock
Research project: In vivo recordings during sensory processing in mormyrid fish
- 08/1995 – 10/1995 **University of Washington (UW), Friday Harbor Laboratories, WA, USA**
Research project: Recruitment behavior of copper rock fish
- 09/1991 – 09/1992 **University of Salamanca, Salamanca, Spain**
Undergraduate studies of Biology
- 10/1990 – 04/1997 **J. W. Goethe University Frankfurt/Main and Hamburg University, Germany**
Undergraduate studies of Biology

FUNDING

- 01/2008 – 06/2011 Deutsche Forschungsgemeinschaft (DFG), SFB 780. Leading PI of project C2
09/2006 – 12/2008 Ministry of Science, Research and the Arts, Baden-Württemberg. Single PI project
05/2005 – 12/2008 Ministry of Science Research and the Arts, Baden-Württemberg. Co-applicant
09/2002 – 11/2004 European Union (EU). Marie-Curie individual fellowship

SELECTED PUBLICATIONS

- Stegen M, Kirchheim F, Hanuschkin A, Staszewski O, Veh RW, **Wolfart J** (2011). Adaptive Intrinsic Plasticity in Human Dentate Gyrus Granule Cells during Temporal Lobe Epilepsy. *Cereb Cortex*, doi:10.1093/cercor/bhr294
- Young CC, Stegen M, Bernard R, Muller M, Bischofberger J, Veh RW, Haas CA, **Wolfart J** (2009). Upregulation of inward rectifier K⁺ (Kir2) channels in dentate gyrus granule cells in temporal lobe epilepsy. *J Physiol* 587:4213-33
- Stegen M, Young CC, Haas CA, Zentner J, **Wolfart J** (2009). Increased leak conductance in dentate gyrus granule cells of temporal lobe epilepsy patients with Ammon's horn sclerosis. *Epilepsia* 50:646-53
- Wolfart J**, Debay D, Le Masson G, Destexhe A, Bal T (2005). Synaptic background activity controls spike transfer from thalamus to cortex. *Nat Neurosci* 8:1760-67
- Wolfart J**, Roeper J (2002). Selective coupling of T-type calcium channels to SK potassium channels prevents intrinsic bursting in dopaminergic midbrain neurons. *J Neurosci* 22:3404-13
- Wolfart J**, Neuhoff H, Franz O, Roeper J (2001). Differential expression of the small-conductance, calcium-activated potassium channel SK3 is critical for pacemaker control in dopaminergic midbrain neurons. *J Neurosci* 21:3443-56
- Prechtl JC, von der Emde G, **Wolfart J**, Karamursel S, Akoev G, Andrianov YN, Bullock TH (1998). Sensory processing in the pallium of a mormyrid fish. *J Neurosci* 18:7381-93