

Curriculum Vitae

Year of Birth: 1961

Research Keywords: Synapses, ion channels, neuronal networks, hippocampus

Education and Training

- 1992 Habilitation, subject of thesis: Molecular identification of native voltage-gated K⁺ channels and glutamate-activated ionic channels with the patch clamp technique, University of Heidelberg
- 1987 Medical Doctor, subject of thesis: Action of scorpion toxins on Na⁺ channels in myelinated nerve, summa cum laude, University of Giessen
- 1980-1986 Studies of Human Medicine at the University of Giessen

Professional Appointments

- 2010- Professor, IST Austria
- 2003 Jun/Jul Sabbatical at the Vollum Institute, OHSU, Portland, Oregon (laboratory of Prof. Gary Westbrook)
- 1998 Jan/Feb Sabbatical at the Vollum Institute, OHSU, Portland, Oregon (laboratory of Prof. Gary Westbrook)
- 1995-2010 Full Professor and head of department, University of Freiburg, at the Physiological Institute
- 1994-1995 Associate Professor, Technical University of München, at the Physiological Institute (department of Prof. Josef Dudel)
- 1990-1994 Research Assistant at the Max Planck Institute for Medical Research, department of Cell Physiology, Prof. Bert Sakmann, Heidelberg
- 1988-1989 Postdoc at the Physiological Institute of the University, group of Prof. Werner Vogel, Giessen

Selected Awards and Distinctions

- 2010 ERC Advanced Grant “Nanophysiology of fast-spiking, parvalbumin-expressing GABAergic interneurons”
- 2009 Adolf Fick Award of the Physicomeditical Society, Würzburg
- 2008-2010 Internal Senior Fellow of the Freiburg Institute for Advanced Studies
- 2008 Member of the Academy of Sciences, Heidelberg
- 2007 Tsungming Tu Award of the National Science Council of Taiwan
- 2006 Call for a chair of Neurobiology, University of California, Irvine
- 2006 Szentagothai memorial lecture, University of California, Irvine
- 2006 Gottfried Wilhelm Leibniz Award of the DFG
- 2002- Member of the Academy of Sciences Leopoldina
- 1998-2001 Human Frontiers Science Program Organization grant (principal investigator), “Inhibitory synaptic signaling in interneuron networks” (with Gary Westbrook, Kunihiko Obata, and Bill Wisden)
- 1999 Offer of the Biocenter Basel, chair of Physiology and Pharmacology, succession of Prof. J.G. Nicholls
- 1999 Call for a chair of Physiology in Heidelberg, succession of Prof. J.C. Rüegg
- 1998 Max Planck research Award for international cooperation
- 1997 Medinfar European prize in physiology from the president of Portugal

- 1994 Heinz Maier-Leibnitz Award from the German minister of education and science
1992 Heisenberg fellowship of the DFG

Major Professional Service Activities

- 2010 Vice-Chair of the Gordon conference "synaptic transmission"
2009- Member of the advisory board of the Max-Planck Institute of Biophysical Chemistry (Göttingen).
2008-2010 Initiator and Coordinator of the Collaborative Research Center "Synaptic Mechanisms of Neuronal Network Function" (SFB 780)
2007- Member of the Board of Reviewing Editors of the journal "Science"
2005 President of the Jacques Monod conference "Synaptic communication in neuronal networks: From molecule to code"
2004-2007 Member of the grant review panel (Fachkollegium) Neuroscience of the Deutsche Forschungsgemeinschaft
2001-2006 Member of the editorial board of The Journal of Neuroscience
1996-2003 Member of the editorial board of The Journal of Physiology (London)

Supervised PhD students

Anja Nörenberg, 2010, University of Freiburg
Jonas Hosp, 2009, University of Freiburg
Yexica Aponte, 2006, University of Freiburg
Christoph Schmidt-Hieber, 2005, University of Freiburg
Stefan Hallermann, 2005, University of Freiburg
Christian Pawlu, 2004, University of Freiburg
Chen-Chang Lien, 2003, University of Freiburg
Biol Taskin, 2002, University of Freiburg
Henrik Alle, 2002, University of Freiburg
Katrin Götz, 2000, University of Freiburg
Udo Kraushaar, 2000, University of Freiburg
Thomas Götz, 1998, University of Freiburg
Jörg Geiger, 1996, University of Freiburg

Supervised Habilitations

Marlene Bartos, 2006, University of Freiburg
Josef Bischofberger, 2003, University of Freiburg
Richard Warth, 2000, University of Freiburg

Invited Lectures (since 2005, selection)

- 2011 Gordon Research Conference "Dendrites" (scheduled)
2010 Keynote lecture, Center of Brain Research, Vienna
2010 Keynote lecture, Bernstein Conference on Computational Neuroscience, Berlin
2010 Satellite conference of FENS meeting GABA signaling and brain networks, Amsterdam
2010 International Neural Microcircuitry Conference, Okinawa and Tokyo
2009 EUSynapse, Göttingen
2009 Gordon Research Conference "Inhibition in the CNS"

2009 Plenary Lecture at the Annual Meeting of the German Neuroscience Society
2008 Gordon Research Conference "Synaptic transmission"
2007 Gordon Research Conference "Inhibition in the CNS"
2007 International Neuroscience Winter Conference, Sölden
2006 Cold Spring Harbor Laboratory Meeting "The GABAergic system"
2006 Academia Europaea Symposium "25 years of giga-seal patch clamping"
2006 Otto Loewi Conference "The rhythmic brain", Eilat
2005 Banbury Center Conference "The GABAergic system"
2005 Jacques Monod Conference "Synaptic communication in neuronal networks:
From molecule to code" (also organizer)
2005 Gordon Research Conference "Inhibition in the CNS"

Major research grants (November 2010)

2011-2016 ERC Advanced Grant: 2.5 Mio €.
2008-2011 SFB TR3, project B10: Glutamatergic synaptic transmission and plasticity in hippocampal microcircuits: 555700 €.
2008-2011 SFB 780, project A4 (with Frotscher): Relation between structure and function of hippocampal mossy fiber synapses: 563700 €.
2008-2011 SFB 780, project A5: Mechanisms of GABA release from synaptic terminals of inhibitory hippocampal interneurons: 729600 €.
2008-2010 SFB 780, central project: 865000 €.
2008-2010 FRIAS Fellowship: ~400000 € (teaching professorship, postdoc position, running costs).
2006-2010 Gottfried Wilhelm Leibniz award of the DFG: 1.55 Mio €.
2005-2010 Bernstein Center for Computational Neuroscience, project B3 (with Vida, Bartos): 179000 €.