

# Stefan Boehm - CV

## Personal Data

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Date of Birth: March 14, 1963  
Place of Birth: Vienna, Austria  
Nationality: Austrian

## Education

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1973 – 1981 secondary school: öffentliches Schottengymnasium der Benediktiner in Wien  
1981 – 1987 studies of Human Medicine, University of Vienna  
1988 – 1995 training as medical specialist in Pharmacology and Toxicology

## Career History

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1987 - 1989 military service and clinical education at the Army Hospital in Vienna  
1988 - 1989 part-time Postdoc at the Institute of Neuropharmacology, Univ. Vienna  
1989 short-term visiting fellow, Columbia Univ, College of Physicians and Surgeons, Dept. of Anatomy and Cell Biology, with Prof. Lorna W. Role  
1989 – 1995 university assistant, Institute of Neuropharmacology, University of Vienna  
1995 – 1997 visiting research scientist, Max-Planck-Institute for Brain Research, Frankfurt/Main, Dept. of Neurochemistry with Prof. Heinrich Betz  
1997 – 1999 lecturer, Institute of Neuropharmacology, University of Vienna  
1999 – 2006 associate Professor at the Department of Pharmacology, Medical University of Vienna, Head of the Working Group of Neurochemistry  
2006-2007 full Professor of Neuropharmacology and Head, Institute of Experimental and Clinical Pharmacology, Medical University of Graz, Styria, Austria  
2007 – present full Professor of Neuropharmacology, Department of Pharmacology, Medical University of Vienna

## Awards

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1995 Humboldt-Fellowship  
1995 Erwin-Schrödinger-Fellowship  
1996 Award of the HOECHST-Foundation for Biomedical Research  
1997 Science Award of Lower Austria  
1999 Otto-Loewi-Award of the Austrian Neuroscience Association  
2007 HH Meyer-Award, Austrian Pharmacological Society (co-author)

## Publications

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53 original publications; 16 reviews/books; >40 invited lectures

### Teaching activities (PhD students of the last 5 years outside of CCHD)

Name of the student	Sex	Research topic	Title of the thesis	No of publications
Stefan Lechner	M	Neuronal	Fine-tuning of neurotransmitter release via a G protein-mediated modulation of voltage-gated ion channels	6
Mario Dorostkar	M	Neuronal	A comparison of the signalling mechanisms of presynaptic ligand-gated ion channels and G protein-coupled receptors	6
Hannah Edelbauer	F	Neuronal	SNARE proteins and the presynaptic modulation via G protein-coupled receptors	3
Simon Huszl	M	Neuronal	Neuronal signalling via nucleotide receptors	4
Klaus Schicker	M	Neuronal	Control of neuronal excitability via direct receptor interactions	3
Kristina Kosenburger	F	Neuronal	On the role of ion channel control via PIP <sub>2</sub> in presynaptic inhibition	2

### Externally funded national and international projects (last 5 years)

Funding organisation	project No.	Research topic of the project	Amount in k€
MUV	UE10207001	CCHD	147
FWF	W1205	CCHD	147
FWF	P17611	Autoregulation in neurons via nucleotide receptors	370
FWF	P15797	Bradykinin and sympathetic neurons	308

### 10 most relevant papers of the last 5 years

Moskvina E, Unterberger U, **Boehm S** (2003) Activity-dependent autocrine/paracrine activation of neuronal P2Y receptors. *J Neurosci* **23**:7479-7488.

Lechner SG, Mayer M, **Boehm S** (2003) Activation of M<sub>1</sub> muscarinic receptors triggers transmitter release from rat sympathetic neurons through an inhibition of M-type K<sup>+</sup> channels. *J Physiol* **553**:789-802.

Kubista H, Edelbauer H, **Boehm S** (2004) Evidence for structural and functional diversity among SDS-resistant SNARE complexes in neuroendocrine cells. *J Cell Sci* **117**:955-966.

Lechner SG, Dorostkar MM, Mayer M, Edelbauer H, Pankevych H, **Boehm S** (2004) Autoinhibition of transmitter release from PC12 cells and sympathetic neurons through a

P2Y<sub>12</sub> receptor-mediated inhibition of voltage-gated Ca<sup>2+</sup> channels. *Eur J Neurosci* **20**:2917-2928.

Edelbauer H, Lechner SG, Mayer M, Scholze T, **Boehm S** (2005) Presynaptic inhibition of transmitter release from rat sympathetic neurons by bradykinin. *J Neurochem* **93**:1110-1121.

Lechner SG, Hussl S, Drobny H, **Boehm S** (2005) Presynaptic inhibition via a phospholipase C and phosphatidylinositol biphosphate-dependent regulation of neuronal Ca<sup>2+</sup> channels. *Mol Pharmacol* **68**:1387-1396.

Goetze B, Tuebing F, Xie Y, Dorostkar MM, Thomas S, Pehl U, **Boehm S**, Macchi P, Kiebler MA (2006) The brain specific double-stranded RNA binding protein Staufen2 is required for dendritic spine morphogenesis. *J Cell Biol* **172**:221-231.

Dorostkar MM, **Boehm S** (2007) opposite effects of presynaptic 5-HT<sub>3</sub> receptor activation on spontaneous and action potential-evoked GABA release at hippocampal synapses. *J Neurochem* **100**:395-405.

Schicker KW, Hussl S, Chandaka GK, Kosenburger K, Yang JW, Sitte HH, Waldhoer M, **Boehm S** (2009) A membrane network of receptors and enzymes for adenine nucleotides and nucleosides. *Biochim Biophys Acta* **1793**(2):325-334.

Kubista H, Kosenburger K, Drobny H, **Boehm S** (2009) Inhibition of transmitter release from rat sympathetic neurons via presynaptic M<sub>1</sub> muscarinic acetylcholine receptors. *Br J Pharmacol* **156**: 1342–1352.

Kosenburger K, Schicker KW, Drobny H, **Boehm S** (2009) Differential fading of B2 bradykinin receptor responses in rat sympathetic neurons: a role for protein kinase C. *J Neurochem.*, in press

#### **Additional References** (Mol. Pharmacol Style)

**Boehm S** (1999) ATP stimulates sympathetic transmitter release via presynaptic P2X purinoceptors. *J Neurosci* **19**:737-746.

**Boehm S**, Betz H (1997) Somatostatin inhibits excitatory transmission at rat hippocampal synapses via presynaptic receptors. *J Neurosci* **17**:4066-4075.

O'Connor V, El Far O, Bofill-Cardona E, Nanoff C, Freissmuth M, Karschin A, Airas JM, Betz H, **Boehm S** (1999) Calmodulin dependence of presynaptic metabotropic glutamate receptor signaling. *Science* **286**:1180-1184.