

Prof. Dr. HILMAR BADING

Date of birth: 03 November, 1958
Gender: Male
Address: Heidelberg University
Department of Neurobiology
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Position: Full Professor (C4) at Heidelberg University
Director of the Department of Neurobiology
Children: Two (* 1996, * 1998)



CURRICULUM VITAE

University education

1981 - 1984 Predoctoral Fellow, Max-Planck-Institut für medizinische Forschung, Heidelberg University
1978 - 1984 Heidelberg University (Humanmedizin)

Scientific degree

1984 M.D., Heidelberg University M.D. Thesis 1984, Heidelberg University, Thesis Advisor: Prof. Wilhelm Hasselbach

Professional experience

2016 Co-Founder of FundaMental Pharma GmbH, Heidelberg
2016 Founder of the Stiftung BrainAid/Foundation BrainAid
Since 2001 Professor of Neurobiology, Director of the Department of Neurobiology, Interdisciplinary Center for Neurosciences (IZN) Heidelberg University
1993 - 2001 Group Leader, Staff Scientist, MRC Laboratory of Molecular Biology, Cambridge, England
1989 - 1992 Postdoctoral Fellow, Prof. Michael E. Greenberg, Department of Microbiology and Molecular Genetics, Harvard Medical School, Boston
1985 - 1989 Postdoctoral fellow, Prof. Karin Moelling, Max-Planck-Institut für molekulare Genetik, Berlin

Academic functions and awards:

Panels and coordinating functions:

Since 2007 Member of the Scientific Advisory Board of the Spemann Graduate School of Biology and Medicine of the University of Freiburg
Since 2006 Acting Director of the Interdisciplinary Center for Neurosciences (IZN), Heidelberg University

2007 - 2014	Member of the Selection Committee for International Max Planck Research Schools (IMPRS)
2007 - 2012	Member of the Steering Committee of the Excellence Cluster CellNetworks of Heidelberg University
Since 2000	Member of the Faculty of 1000
1998 - 2001	Member of the Wellcome Trust Neuroscience Panel

Awards and honors:

2016	Innovation Prize of the German BioRegions
2015	Recipient of the ERC Proof-of-Concept Grant
2008	Recipient of the ERC Advanced Grant
2001	Wolfgang-Paul-Prize of the Alexander von Humboldt-Foundation

Editorial boards

1998 – 2000	Member of the Editorial Board of the Journal of Molecular Neuroscience
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A) Publications:

- Pruunsild P, Bengtson CP, Bading H. Networks of cultured iPSC-derived neurons reveal the human synaptic activity-regulated adaptive gene program. **Cell Reports** 2017;18(1):122-135.
- Oliveira AM, Hemstedt TJ, Bading H. Rescue of aging-associated decline in Dnmt3a2 expression restores cognitive abilities. **Nature Neuroscience** 2012;15(8):1111-1113.
- Mauceri D, Freitag HE, Oliveira AM, Bengtson CP, Bading H. Nuclear calcium-VEGFD signaling controls maintenance of dendrite arborization necessary for memory formation. **Neuron** 2011;71(1):117-130.
- Zhang SJ, Zou M, Lu L, Lau D, Ditzel DA, Delucinge-Vivier C, Aso Y, Descombes P, Bading H. Nuclear calcium signaling controls expression of a large gene pool: identification of a gene program for acquired neuroprotection induced by synaptic activity. **PLoS Genetics** 2009;5(8):e1000604.
- Hardingham GE, Fukunaga Y, Bading H. Extrasynaptic NMDARs oppose synaptic NMDARs by triggering CREB shut-off and cell death pathways. **Nature Neuroscience** 2002;5(5):405-414.
- Hardingham GE, Arnold FJ, Bading H. Nuclear calcium signaling controls CREB-mediated gene expression triggered by synaptic activity. **Nature Neuroscience** 2001;4(3):261-267.
- Chawla S, Hardingham GE, Quinn DR, Bading H. CBP: a signal-regulated transcriptional coactivator controlled by nuclear calcium and CaM kinase IV. **Science** 1998;281(5382):1505-1509.
- Hardingham GE, Chawla S, Johnson CM, Bading H. Distinct functions of nuclear and cytoplasmic calcium in the control of gene expression. **Nature** 1997;385(6613):260-265.
- Bading H, Ginty DD, Greenberg ME. Regulation of gene expression in hippocampal neurons by distinct calcium signaling pathways. **Science** 1993;260(5105):181-186.
- Bading H, Greenberg ME. Stimulation of protein tyrosine phosphorylation by NMDA receptor activation. **Science** 1991;253(5022):912-914.

B) Patents:

Granted:

"VEGF-D/VEGFR2/3-mediated regulation of dendrites" (USA: US 13/150,846; Canada: CA 283483; European Office: EP 11 004 490.6)

Scientific collaborations beyond the planned Collaborative Research Centre:

Israel Sekler, Ben Gurion University of the Negev, Israel

Peter Vanhoutte, University Pierre et Marie Curie – Paris VI, France

Francesco Roselli, Ulm University, Ulm, German

