

Volker Haucke

Leibniz-Institut für Molekulare Pharmakologie (FMP)
Robert-Rössle-Str. 10 | D-13125 Berlin-Buch
Phone: +49 (0)30 947-93100
Email: haucke@fmp-berlin.de



Curriculum vitae

since 2012	Professor of Molecular Pharmacology and Director, Leibniz Institut für Molekulare Pharmakologie (FMP), Berlin
2011 - 2012	Coordinator, Collaborative Research Center (SFB) 958
2008 - 2010	Coordinator, Collaborative Research Center (SFB) 449
2008 - 2011	Professor (W3), Biochemistry, Freie Universität and Charité - Universitätsmedizin, Berlin
since 2005	Professor and Chair (W3), Department of Biochemistry, Freie Universität Berlin
2003 - 2005	Professor (C3), Membrane Biochemistry, Freie Universität Berlin
2000 - 2003	Independent group leader, Center for Biochemistry & Molecular Cell Biology, University of Göttingen
1997 - 1999	Postdoctoral fellow, Yale University School of Medicine and HHMI (Prof. P. De Camilli), New Haven
1994 - 1997	PhD student, Department of Biochemistry (Prof. G. Schatz), Biozentrum, University of Basel
1997	PhD summa cum laude
1989 - 1994	Studies in Biochemistry, Freie Universität Berlin and the University of Basel

Research fields

Our group is active in the field of cellular and molecular neuroscience with the following areas:

- Cellular and molecular mechanisms of synaptic vesicle recycling and presynaptic protein homeostasis
- Regulation of endocytosis and endosomal membrane traffic by phosphoinositides
- Endosomal membrane dynamics in cell signaling and development
- Super-resolution and optical imaging of neuronal function and activity

Activities in the scientific community, honors, awards

2014	Elected Member of EMBO
since 2008	Member, Study Section, Biochemistry, DFG
since 2011	Member, Editorial Board, EMBO Reports
since 2007	Member, Editorial Board, The Journal of Biological Chemistry
since 2004	Member, Editorial Board, Biology of the Cell
2003	YIP Award, European Molecular Biology Organization (EMBO)
1998	Long-Term Fellowship, Human Frontier Science Program Organization
1997	Long-Term Fellowship and Short-Term Fellowship, European Molecular Biology Organization (EMBO)
1990 - 1994	Fellowship, Studienstiftung des deutschen Volkes

Selected publications

Ketel K, Krauss M, Nicot AS, Puchkov D, Wieffer M, Muller R, Subramanian D, Schultz C, Laporte J, Haucke V. A phosphoinositide conversion mechanism for exit from endosomes. *Nature*. 2016;529(7586):408-12.

Koo SJ, Kochlamazashvili G, Rost B, Puchkov D, Gimber N, Lehmann M, Tadeus G, Schmoranzer J, Rosenmund C, Haucke V, Maritzen T. Vesicular Synaptobrevin/VAMP2 Levels Guarded by AP180 Control Efficient Neurotransmission. *Neuron*. 2015;88(2):330-44.

Gimber N, Tadeus G, Maritzen T, Schmoranzer J, Haucke V. Diffusional spread and confinement of newly exocytosed synaptic vesicle proteins. *Nat Commun*. 2015;6:8392.

Kononenko NL, Puchkov D, Classen GA, Walter AM, Pechstein A, Sawade L, Kaempf N, Trimbuch T, Lorenz D, Rosenmund C, Maritzen T, Haucke V. Clathrin/AP-2 mediate synaptic vesicle reformation from endosome-like vacuoles but are not essential for membrane retrieval at central synapses. *Neuron*. 2014;82(5):981-8.

Daumke O, Roux A, Haucke V. BAR domain scaffolds in dynamin-mediated membrane fission. *Cell*. 2014;156(5):882-92.

Posor Y, Eichhorn-Gruenig M, Puchkov D, Schoneberg J, Ullrich A, Lampe A, Muller R, Zarbakhsh S, Gulluni F, Hirsch E, Krauss M, Schultz C, Schmoranzer J, Noe F, Haucke V. Spatiotemporal control of endocytosis by phosphatidylinositol-3,4-bisphosphate. *Nature*. 2013;499(7457):233-7.

von Kleist L, Stahlschmidt W, Bulut H, Gromova K, Puchkov D, Robertson MJ, MacGregor KA, Tomilin N, Pechstein A, Chau N, Chircop M, Sakoff J, von Kries JP, Saenger W, Krausslich HG, Shupliakov O, Robinson PJ, McCluskey A, Haucke V. Role of the clathrin terminal domain in regulating coated pit dynamics revealed by small molecule inhibition. *Cell*. 2011;146(3):471-84.

Haucke V, Neher E, Sigrist SJ. Protein scaffolds in the coupling of synaptic exocytosis and endocytosis. *Nat Rev Neurosci*. 2011;12(3):127-38.

Faelber K, Posor Y, Gao S, Held M, Roske Y, Schulze D, Haucke V, Noe F, Daumke O. Crystal structure of nucleotide-free dynamin. *Nature*. 2011;477(7366):556-60.

Diril MK, Wienisch M, Jung N, Klingauf J, Haucke V. Stonin 2 is an AP-2-dependent endocytic sorting adaptor for synaptotagmin internalization and recycling. *Dev Cell*. 2006;10(2):233-44.