Volker Haucke
Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP)
Molecular Pharmacology and Cell Biology
Robert-Rössle-Str. 10
D-13125 Berlin

Phone: +49 (0)30 94793100
Email: haucke(at)fmp-berlin.de

Curriculum vitae

Since 2012	Director, FMP, Berlin
Since 2012	Full professor, Molecular Pharmacology, FMP, Berlin
2011 – 2012	Spokesperson, Collaborative Research Center (SFB) 958 'Scaffolding of membranes – molecular mechanisms and cellular functions', German Research Foundation (DFG)
2008 – 2010	Spokesperson, Collaborative Research Center (SFB) 449 'Structure and function of membrane integral receptors', German Research Foundation (DFG)
2005 – 2011	Full professor (W3) and chair, Department of Biochemistry, Freie Universität Berlin
2003 – 2005	Professor (C3), Membrane Biochemistry, Freie Universität Berlin
2000 – 2003	Research group leader, Center for Biochemistry and Molecular Cell Biology, Georg-August-Universität Göttingen
1997 – 1999	Postdoctoral fellow, Yale University School of Medicine, New Haven; and Howard Hughes Medical Institute, Chevy Chase, US
1994 – 1997	PhD, Department of Biochemistry, Biozentrum, Universität Basel, CH
1989 – 1994	Studies in Biochemistry, Freie Universität Berlin and Universität Basel, CH

Research fields

- 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

Since 2020	President, Scientific Advisory Board, Institute of Psychiatry and Neuroscience of Paris, Université Paris Descartes (iPNP)
2020	Feldberg Prize for Research in Physiology and Pharmacology
Since 2019	Member, Academia Europaea/ Academy of Europe (AE)
Since 2017	Member, Berlin-Brandenburg Academy of Sciences and Humanities (BBAW)
Since 2017	Member, Leopoldina – German National Academy of Sciences
2017	Avanti Award, American Society for Biochemistry and Molecular Biology
2017	Reinhart-Koselleck-Award, German Research Foundation (DFG)
Since 2016	Scientific advisory board of open access platform 'Matters'
Since 2014	Member, European Molecular Biology Organization (EMBO)
Since 2011	Member, editorial board, EMBO Reports
2008 – 2016	Member, Study Section, Biochemistry, German Research Foundation (DFG)
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 (HFSP)
1997	Long-Term Fellowship and Short-Term Fellowship, European Molecular Biology Organization (EMBO)
1994 – 1997	PhD Fellowship, Boehringer Ingelheim Fonds
1990 – 1994	Scholarship, Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation)

Selected publications

Wallroth A, Koch PA, Marat AL, Krause E, Haucke V. Protein kinase N controls a lysosomal lipid switch to facilitate nutrient signalling via mTORC1. Nat Cell Biol 2019; 21: 1093-1101

Vukoja, A., Rey, U., Petzoldt, A.G., Vollweiter, D., Ott, C., Quentin, C., Puchkov, D., Reynolds, E., Lehmann, M., Hohensee, S., Rosa, S., Lipowsky, R., Sigrist, S.J., Haucke, V. Presynaptic biogenesis requires axonal transport of lysosome-related vesicles. Neuron 2018; 99: 1216-1232

Marat AL, Wallroth A, Lo WT, Muller R, Norata GD, Falasca M, Schultz C, Haucke V. mTORC1 activity repression by late endosomal phosphatidylinositol 3,4-bisphosphate. Science 2017; 356:968-972

Soykan T, Kaempf N, Sakaba T, Vollweiter D, Goerdeler F, Puchkov D, Kononenko NL, Haucke V. Synaptic Vesicle Endocytosis Occurs on Multiple Timescales and Is Mediated by Formin-Dependent Actin Assembly. Neuron 2017; 93:854-866

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; 529:408-412

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; 88:330-344 | *corresponding authors

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; 82:981-988

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; 499:233-237

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; 146:471-484

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; 477:556-560