

CV - Volker Haucke, Ph.D.

Volker Haucke Ph.D.

Born: June 29, 1968, Berleburg, Germany

Leibniz-Forschungsinstitut für Molekulare Pharmakologie
Department of Molecular Pharmacology and Cell Biology
Robert-Rössle-Str. 10, 13125 Berlin, Germany
Phone: +49 30 94793 100
E-mail: haucke@fmp-berlin.de



Education and Professional Experience

January 2012 - present	Full Professor of Molecular Pharmacology, Freie Universität Berlin & Director at the Leibniz-Research Institut für Molekulare Pharmakologie
2005 - 2011	Full Professor of Biochemistry (W3), FU Berlin, Institute of Chemistry & Biochemistry, Department of Membrane Biochemistry
2004, 2008	Offer for full professorships (C4/ W3; both declined), University of Konstanz, Faculty of Biology; University of Bonn, LIMES Biocenter
2003 - 2005	Professor of Biochemistry (C3), FU Berlin, Institute of Chemistry & Biochemistry, Department of Membrane Biochemistry
2003	Habilitation (venia legendi), Biochemistry, University of Göttingen
2000 - 2003	Assistant Professor (DFG-funded independent junior research group leader; SFB 523) Center for Biochemistry & Molecular Cell Biology, University of Göttingen
1997 - 2000	Postdoctoral Research Associate, Yale University & HHMI
1997	Ph.D. („Summa Cum Laude“), Biochemistry, University of Basel (Biozentrum), Switzerland
1994 - 1997	Ph.D. student, Department of Biochemistry, Biozentrum, University of Basel, Switzerland (supervisor: Prof. Dr. G. Schatz)
1994	Diploma (MSc equivalent), Biochemistry, FU Berlin & University of Basel

Scientific Affiliations

Member & Principal Investigator, NeuroCure Cluster of Excellence

Founding-Chair & Member, SFB 958 "Scaffolding of Membranes"

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Member, SFB 740 "Functional Protein Modules"

Member, TRR 186 "Molecular Switches"

Member, Helmholtz International Research School Molecular Neurobiology at MDC

Member, TransCard Research School at MDC

Member, American Society for Cell Biology, Bethesda, USA (ASCB)

Member, American Society for Biochemistry & Molecular Biology (ASBMB)

Member, Society for Neuroscience, Washington D.C. (SFN)

Member, Federation of European Biochemical Societies (FEBS)

Member, German Society for Biochemistry & Molecular Biology, Frankfurt, (GBM)

Member, German Society for Cell Biology (DGZ), Heidelberg

Honors

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| 2017 | Elected Member of The German National Academy of Sciences, Leopoldina |
| 2017 | Avanti Award of the American Society for Biochemistry & Molecular Biology (ASBMB) 2017 |
| 2016 | Reinhart-Koselleck-Award of the Deutsche Forschungsgemeinschaft (DFG) |
| 2014 | Elected Member of the European Molecular Biology Organization (EMBO) |
| 2003 | Young Investigator Award (YIP), European Molecular Biology Organization |
| 1998 | Long-Term Fellowship Award, Human Frontier Science Program |
| 1997 | Long-Term Fellowship Award, European Molecular Biology Organization |
| 1995 | Short-Term Fellowship Award, European Molecular Biology Organization |
| 1994 | Boehringer Ingelheim Fellow |
| 1993 | Dr. Carl-Duisberg-Foundation Scholar |
| 1990 - 1993 | Scholarship Holder of the Studienstiftung des deutschen Volkes |

Review Panels

Scientific Advisory Board, Leibniz Institute on Aging-Fritz Lipmann Institute (FLI) (since 2017)

Scientific Advisory Board of open access platform *Matters* (<https://www.sciencematters.io>; since 11/2015)

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Editorial Board, EMBO Reports (since 01/2012)

Editorial Board, Journal of Biological Chemistry (USA, 2007 - 2012)

Editorial Board, Biology Cell (2005 - 2009; 2011 - onwards)

Member, Faculty of 1000, Neuronal Signaling

Member, Study Section, "Biochemistry" of the German Funding Agency (DFG) (2008-2016)

Organization of Conferences

May/ June 2006 International Meeting "Cell Biology of the Synapse", Paris (Co-organizer w/ Thierry Galli, Paris)

December 2009, 1st International Conference on "Membranes & Modules", Berlin (Chair together w/ C. Spahn)

October 2010, Workshop "Trends in Microscopy", Berlin (Co-chair w/ Stephan Sigrist)

December 2010, International Meeting "From protein structure to membrane dynamics", Berlin (Chair)

March 2013, 2nd International Conference on "Membranes & Modules", Berlin (Co-organizer)

October 2013 Janelia Conference on Synaptic Vesicle Biogenesis, Janelia Farm, MD, USA (Co-organizer w/ Pietro De Camilli, Yale, and Tim A. Ryan, Cornell)

July 2015 Federation of the European Biochemical Societies (FEBS), Annual Meeting 2015 (Chair)

10 Representative Recent Publications

- *1. Marat, A.L., Wallroth, A., Lo, W., Müller, R., Norata, G.D., Falsaca, M., Schultz, C., **Haucke, V. (2017)** mTORC1 activity repression by late endosomal phosphatidylinositol 3,4-bisphosphate. *Science*, **356**, 968-972 (see commentary by Raiborg & Stenmark (2017) *EMBO J.* [doi: 10.15252/embj.201797469])
2. Soykan, T., Kaempf, N., Sakaba, T., Vollweiter, D., Goerdeler, F., Puchkov, D., Kononenko, N.L., **Haucke, V. (2017)** Synaptic vesicle endocytosis occurs on multiple timescales and is mediated by formin-dependent actin assembly. *Neuron*, **93**, 854-866
- *3. Ketel, K., Krauss, M., Nicot, A.S., Puchkov, D., Wieffer, M., Müller, R., Subramanian, D., Schultz, C., Laporte, J., **Haucke, V. (2016)** A phosphoinositide conversion mechanism for exit from endosomes. *Nature*, **529**, 408-412 (see commentary by Balla (2016) *Nature* [doi: 10.1038/nature16868])
- *4. Koo, S.Y., Kochlamazashvili, G., Rost, B., Puchkov, D., Gimber, N., Lehmann, M., Tadeus, G., Schmoranzer, J., Rosenmund, C., **Haucke, V.**[#], Maritzen, T.[#] (2015) Vesicular synaptobrevin/VAMP2 levels guarded by AP180 control efficient neurotransmission. *Neuron*, **88**, 330-344 ([#]co-corresponding authors, both from Haucke lab)
- *5. Gimber, N., Tadeus, G., Maritzen, T., Schmoranzer, J., **Haucke, V. (2015)** Diffusional spread and confinement of newly exocytosed synaptic vesicle proteins. *Nature Communications*, **6**, 8392 [DOI: 10.1038/ncomms9392]
6. Kononenko, N.L., Puchkov, D., Classen, G.A., Walter, A., Pechstein, A., Sawade, L., Kaempf, N., Trimbuch, T., Lorenz, D., Rosenmund, C., Maritzen, M., **Haucke, V. (2014)** Clathrin/ AP-2 mediate synaptic vesicle reformation from endosome-like vacuoles but are not essential for membrane retrieval at central synapses. *Neuron*, **82**, 981-988
- *7. Posor, Y., Eichhorn-Grünig, M., Puchkov, D., Schöneberg, J., Ullrich, A., Lampe, A., Müller, R., Zerbakhsh, Gulluni, F., Hirsch, E., Krauss, M., Schultz, C., Schmoranzer, J., Noe, F., **Haucke, V. (2013)** Spatiotemporal Control of Endocytosis by Phosphatidylinositol 3,4-Bisphosphate. *Nature*, **499**, 233-237 (see commentary by Schmid & Mettlen (2013) *Nature* [doi: 10.1038/nature12408])
8. **Haucke, V.**, Neher, E., Sigrist, S.J. (2011) Protein scaffolds in the coupling of synaptic exocytosis and endocytosis. *Nat Rev Neurosci.*, **12**, 125-136
- *9. von Kleist, L., Stahlschmidt, W., Bulut, H., Gromova, K., Puchkov, D., Robertson, M., MacGregor, K.A., Tomlin, N., Pechstein, A., Chau, N., Chircop, M., Sakoff, J., von Kries, J., Saenger, W., Kräusslich, H.-G., Shupliakov, O., Robinson, P., McCluskey, A., **Haucke, V. (2011)** Role of the clathrin terminal domain in regulating coated pit dynamics revealed by small molecule inhibition. *Cell*, **146**, 471-484
- *10. Faelber, K., Posor, Y., Gao, S., Held, M., Roske, Y., Schulze, D., **Haucke, V.**, Noe, F., Daumke, O. (2011) Crystal structure of nucleotide-free dynamin. *Nature*, **477**, 556-560

* indicates that the paper was recommended by the 'Faculty of 1000'

Publications in Peer-Reviewed Journals

2017

163. Marat, A.L., Wallroth, A., Lo, W., Müller, R., Norata, G.D., Falsaca, M., Schultz, C., **Haucke, V. (2017)** mTORC1 activity repression by late endosomal phosphatidylinositol 3,4-bisphosphate. *Science*, **356**, 968-972 (see commentary by Raiborg & Stenmark (2017) *EMBO J.* [doi: 10.15252/embj.201797469])
162. Rathjen, T., Yan, X., Kononenko, N.L., Ku, M.C., Song, K., Ferrarese, L., Tarallo, V., Puchkov, D., Kochlamazashvili, G., Brachs, S., Varela, L., Szigeti-Buck, K., Yi, C.X., Schriever, S.C., Tattikota, S.G., Park, I., Carlo, A.S., Moroni, M., Siemens, J., Heuser, A., van der Weyden, L., Birkenfeld, A.L., Niendorf, T., Poulet, J.F.A, Horvath, T.L., Tschöp, M.H., Trajkovski, M., Heinig, M., **Haucke, V.**, Poy, M.N. (2017) Regulation of body weight and energy homeostasis by neuronal Cell adhesion molecule 1. *Nat. Neurosci.*, Jun 19. [doi: 10.1038/nn.4590] [Epub ahead of print]
161. Mertins, P., Przybylski, D., Yosef, N., Qiao, J., Clauser, K., Raychowdhury, R., Eisenhaure, T.M., Maritzen, T., **Haucke, V.**, Satoh, T., Akira, S., Carr, S.A., Regev, A., Hacohen, N., Chevrier, N. (2017) An Integrative Framework Reveals Signaling-to-Transcription Events in Toll-like receptor Signaling. *Cell Rep.*, **19**, 2853-2866
160. Soykan, T., Kaempf, N., Sakaba, T., Vollweiler, D., Goerdeler, F., Puchkov, D., Kononenko, N.L., **Haucke, V. (2017)** Synaptic vesicle endocytosis occurs on multiple timescales and is mediated by formin-dependent actin assembly. *Neuron*, **93**, 854-866
159. Kononenko, N.L., Claßen, G.A., Kuijpers, M., Puchkov, D., Maritzen, T., Tempes, A., Malik, A.R., Skalecka, A., Bera, S., Jaworski, J., **Haucke, V. (2017)** Retrograde transport of TrkB-containing autophagosomes via the endocytic adaptor AP-2 mediates neuronal complexity and prevents neurodegeneration. *Nature Communications*, **8**, 14819 [doi: 10.1038/ncomms14819]
158. Jakob, B., Kochlamazashvili, G., Jäpel, M., Aziz Gauhar, Hans Bock, Maritzen, T., **Haucke, V. (2017)** Intersectin 1 is a component of the Reelin pathway to regulate neuronal migration and synaptic plasticity in the hippocampus. *Proc Natl Acad Sci USA* **114**, 5533-5538
157. Schöneberg, J.[#], Lehmann, M.[#], Ullrich, A.[#], Lo, W.T., Posor, Y., Lichtner, G., Schmoranzer, J., **Haucke, V.***, Noe, F.* (2017) Lipid-mediated PX-BAR domain recruitment couples local membrane constriction to endocytic vesicle fission. (*co-corresponding authors) *Nature Communications*, **8**:15873 [doi: 10.1038/ncomms15873]
156. Wetzel, C., Pifferi, S., Picci, C., Gök, C., Hoffmann, D., Balli, K.K., Lampe, A., Lapatsina, L., Fleischer, R., St. John Smith, E., Moroni, M., Estebanez, L., Begay, V., Kühnemund, J., Walcher, J., Specker, E., Neuenschwander, M., von Kries, J.P., **Haucke, V.**, Kuner, R., Poulet, J.F., Schmoranzer, J., Poole, K., Lewin, G.R. (2017) Small molecule inhibition of STOML3 oligomerization reverses pathological mechanical hypersensitivity. *Nature Neurosci.* **20**, 209-218

2016

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155. Kuijpers, M., **Haucke, V. (2016)** Autophagosome formation by endophilin keeps synapses in shape. *Neuron* **92**, 675-677
154. Robertson MJ, Horatscheck A, Sauer S, von Kleist L, Baker JR, Stahlschmidt W, Nazaré M, Whiting A, Chau N, Robinson PJ, **Haucke V**, McCluskey A. **(2016)** 5-Aryl-2-(naphtha-1-yl)sulfonamido-thiazol-4(5H)-ones as clathrin inhibitors. *Org Biomol Chem.***14**, 11266-11278.
153. Grauel, M.K., Maglioni, M., Suneel Reddy-Alla, S., Bentz, C.G., Brockmann, M.M., Trimbuch, T., Rosenmund, T., Pangalos, M., Walter, A.M., Rost, B.R., Eickholt, B.J., **Haucke, V.**, Schmitz, D., Sigrist, S.J., Rosenmund, C. **(2016)** RIM-binding protein 2 regulates release probability by fine-tuning calcium channel localization at murine hippocampal synapses. *Proc Natl Acad Sci U S A* **113**, 11615–11620
152. Seifert, W., Posor, Y., Schu, P., Stenbeck, G., Mundlos, S., Klaassen, S., Nürnberg, P., **Haucke, V.**, Kornak, U., Kühnisch, J. **(2016)** The progressive ankylosis protein ANK facilitates clathrin- and adaptor-mediated membrane traffic at the trans-Golgi network-to-endosome interface. *Hum. Mol. Genet.* **25**, 3836-3848
151. Soykan, T., **Haucke, V. (2016)** Membrane kiss mediates hormone secretion. *Nature* **534**, 479-80
150. Schütz, I., Lopez-Hernandez, T., Gao, Q., Puchkov, D., Jabs, S., Nordmeyer, D., Schmutde, M., Rühl, E., Graf, C.M., **Haucke, V. (2016)** Lysosomal dysfunction caused by cellular accumulation of silica nanoparticles. *J. Biol. Chem.* **291**, 14170-84
149. Lopes da Silva, M., Marie N. O'Connor, M.N., Kriston-Vizi, J., White, I.J., Al-Shawi, R., Simons, J.P., Mössinger, J., **Haucke, V.**, Cutler, D.F. **(2016)** Type II PI4-kinases control Weibel-Palade body biogenesis and von Willebrand factor string formation in Human endothelial cells. *J. Cell Sci.* **129**, 2096-105
148. Krauss, M., **Haucke, V. (2016)** Directing lipid transport at membrane contact sites. *Nat. Cell Biol.* **18**, 461-3
147. Soykan, T., Maritzen, T., **Haucke, V. (2016)** Modes and mechanisms of synaptic vesicle recycling. *Curr. Op. Neurobiol.*, **39**, 17-23
146. Marat, A.L., **Haucke, V. (2016)** Phosphatidylinositol 3-phosphates - at the interface between cell signalling and membrane traffic. *EMBO J.*, **35**, 561-579
145. Ketel, K., Krauss, M., Nicot, A.S., Puchkov, D., Wieffer, M., Müller, R., Subramanian, D., Schultz, C., Laporte, J., **Haucke, V. (2016)** A phosphoinositide conversion mechanism for exit from endosomes. *Nature*, **529**, 408-412 (see commentary by Balla (2016) *Nature* [doi: 10.1038/nature16868])

2015

144. **Haucke, V. (2015)** Hopping pits catch fusing granules. *Dev. Cell*, **35**, 10-11
143. Koo, S.Y., Kochlamazashvili, G., Rost, B., Puchkov, D., Gimber, N., Lehmann, M., Tadeus, G., Schmoranzler, J., Rosenmund, C., **Haucke, V.#**, Maritzen, T.# **(2015)** Vesicular synaptobrevin/VAMP2 levels guarded by AP180 control efficient

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- neurotransmission. *Neuron*, **88**, 330-344 (#co-corresponding authors, both from Haucke lab)
142. Gimber, N., Tadeus, G., Maritzen, T., Schmoranzner, J., **Haucke, V. (2015)** Diffusional spread and confinement of newly exocytosed synaptic vesicle proteins. *Nature Communications*, **6**, 8392 [DOI: 10.1038/ncomms9392]
 141. Reubold, T., Faelber, K., Plattner, N., Posor, Y., Ketel, K., Curth, U., Schlegel, J., Roopsee, A., Manstein, D.J., Noé, F., **Haucke, V.**, Daumke, O., Eschenburg, S. **(2015)** Crystal structure of the dynamin tetramer. *Nature*, **525**, 404-408.
 140. Lehmann, M., Gottschalk, B., Puchkov, D., Schmieder, P., Schwagerus, S., Hackenberger, C.P., **Haucke, V.**, Schmoranzner, J. **(2015)** Multicolor 'caged' dSTORM resolves the ultra-structure of synaptic vesicles in the brain. *Angew. Chem.* **54**, 13230-13235
 139. Jung, S.Y., Maritzen, T., Wichmann, C., Jing, Z., Neef, A., Revelo, N.H., Al-Moyed, H., Meese, S., Wojcik, S.M., Panou, I., Bulut, H., Schu, P., Ficner, R., Reisinger, E., Rizzoli, S.O., **Haucke, V.***, Moser, T.* **(2015)** Disruption of adaptor protein 2 μ (AP-2 μ) in cochlear hair cells impairs vesicle reloading of synaptic release sites and hearing. *EMBO J*, **34**, 2686-2702 (* co-corresponding authors)
 138. Kaempf N., Kochlamazashvili G., Puchkov D., Maritzen T., Bajjalieh S.M., Kononenko N.L., **Haucke V. (2015)** Overlapping functions of stonin 2 and SV2 in sorting of the calcium sensor synaptotagmin 1 to synaptic vesicles. *Proc Natl Acad Sci U S A*, **112**, 7297-7302
 137. Diezmann, F., von Kleist, L., **Haucke, V.**, Seitz, O. **(2015)** Probing heterobivalent binding to the endocytic AP-2 adaptor complex by DNA-based spatial screening. *Org. Biomol. Chem.* **13**, 8008-15.
 136. Krauß M, **Haucke V. (2015)** A grab to move on: ER-endosome contacts in membrane protrusion formation and neurite outgrowth. *EMBO J.*, **34**, 1442-4
 135. Echard A., **Haucke V. (2015)** Lipids, GTPases, and their regulators in membrane dynamics: an intracellular ménage à trois. *Mol Biol Cell*, **26**,1012-3
 134. Daniel, J.A., Chau, N., Abdel-Hamid, M.K., Hu, L., von Kleist, L., Whiting, A., Krishnan, S., Maamary, P., Joseph, S.R., Simpson, F., **Haucke, V.**, McCluskey, A., Robinson, P.J. **(2015)** Phenothiazine-derived antipsychotic drugs inhibit dynamin and clathrin-mediated endocytosis. *Traffic*, **16**, 635-54
 133. Pechstein, A., Gerth, F., Milosevic, I., Jäpel, M., Eichhorn-Grünig, M., Vorontsova, O., Bacetic, J., Maritzen, T., Shupliakov, O., Freund, C., **Haucke, V. (2015)** Vesicle uncoating regulated by SH3-SH3 domain-mediated complex formation between endophilin and intersectin at synapses. *EMBO Rep*, **16**, 232-239
 132. Kononenko, N.L. and **Haucke, V. (2015)** Molecular Mechanisms of Presynaptic Membrane Retrieval and Synaptic Vesicle Reformation. *Neuron*, **85**, 484-496
 131. Seifert, W., Kühnisch, J, Maritzen, T., Lommatzsch, S., Hennies, H.C., Bachmann, S., Horn, D., **Haucke, V. (2015)** Cohen Syndrome-associated Protein COH1 Physically and Functionally Interacts with the Small GTPase RAB6 at the Golgi Complex and Directs Neurite Outgrowth. *J.Biol.Chem.*, **290**, 3349-3358
 130. Cai, Y., Postnikova, E., N., Bernbaum, J.G., Yú, S.Q., Mazur, S., Deilulis, N.M., Radoshitzky, S.R., Lackemeyer, M.G., McCluskey, A., Robinson, P.J., **Haucke, V.**

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- Wahl-Jensen, V., Bailey, A.L., Lauck, M., Friedrich, T.C., O'Connor, D.H., Goldberg, T.L., Jahrling, P.B., Kuhn, J.H. (2015) Simian Hemorrhagic Fever Virus Cell Entry is Dependent on CD163 and Uses a Clathrin-mediated Endocytosis-like Pathway. *J Virol*, **89**, 844-856
129. **Haucke, V. (2015)** Cell biology: On the endocytosis rollercoaster. *Nature*, **517**, 446-447
128. Posor, Y., Eichhorn-Grünig, M., **Haucke, V. (2015)** Phosphoinositides in endocytosis. *Biochim Biophys Acta*, **1851**, 794-80

2014

127. Krüger, H.R., Schütz, I., Justies, A., Licha, K., Welker, P., **Haucke, V.**, Calderón, M. (2014) Imaging of doxorubicin release from theranostic macromolecular prodrugs via fluorescence resonance energy transfer. *J Control Release*, **194C**, 189-196
126. Kononenko, N.L., Puchkov, D., Classen, G.A., Walter, A., Pechstein, A., Sawade, L., Kaempf, N., Trimbuch, T., Lorenz, D., Rosenmund, C., Maritzen, M., **Haucke, V. (2014)** Clathrin/ AP-2 mediate synaptic vesicle reformation from endosome-like vacuoles but are not essential for membrane retrieval at central synapses. *Neuron*, **82**, 981-988
125. Podufall, J., Tian, R., Knoche, E., Puchkov, D., Walter, A.M., Rosa, S., Quentin, C., Vukoja, A., Jung, N., Lampe, A., Wichmann, C., Böhme, M., Depner, H., Zhang, Y.Q., Schmoranzler, J., Sigrist, S.J., **Haucke, V. (2014)** A presynaptic role for the cytomatrix protein GIT in synaptic vesicle recycling. *Cell Reports*, **7**, 1417-1425
124. Wilhelm, B.G., Mandad, S., Truckenbrodt, S., Kröhnert, K., Schäfer, C., Rammner, B., Koo, S.J., Claßen, G.A., Krauss, M., **Haucke, V.**, Urlaub, H., Rizzoli, S. O. (2014) Composition of Synaptic Boutons Reveals the Amounts of Vesicle Trafficking Proteins. *Science*, **344**, 1023-1028
123. Robertson, M. J., Deane, F. M., Stahlschmidt, W., von Kleist, L., **Haucke, V.***, Robinson, P.J.*, McCluskey, A.* (2014) Synthesis of the Pitstop family of clathrin inhibitors. *Nature Protocols*, **9**, 1592-1606 (*co-corresponding authors)
122. Daumke, O., Roux, A., **Haucke, V. (2014)** BAR domain scaffolds in dynamin-mediated membrane fission. *Cell* **156**, 882-892
121. Walter, A.M., **Haucke, V.**, Sigrist, S.J. (2014) Neurotransmission: Spontaneous and evoked release filing for divorce. *Curr Biol.*, **24**, R192-4
120. Franco, I., Gulluni, F., Campa, C.C., Costa, C., Margaria, P., Ciraolo, E., Martini, M., Monteyne, D., De Luca, D., Germena, G., Posor, Y., Maffucci, T., Marengo, S., **Haucke, V.**, Falasca, M., Perez-Morga, D., Boletta, A., Merlo, G.R., Hirsch, E. (2014) PI3K class II α controls spatially restricted endosomal PtdIns3P and Rab11 activation to promote primary cilium function. *Dev. Cell*, **28**, 647-58
119. Krauss, M. and **Haucke, V. (2014)** A Novel Twist in Membrane deformation. *Dev. Cell*, **31**, 3-4
118. Stahlschmidt, W., Robertson, M.J., Robinson, P.J., McCluskey, A., **Haucke, V. (2014)** Clathrin Terminal Domain-Ligand Interactions Regulate Sorting of Mannose 6-Phosphate Receptors Mediated by AP-1 and GGA Adaptors. *J Biol. Chem.* **289**, 4906-4918

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117. Macgregor, K.A., Robertson, M.J., Young, K.A., von Kleist, L., Stahlschmidt, W., Whiting, A., Chau, N., Robinson, P.J., **Haucke V.**, McCluskey, A. (2013) Development of 1,8- Naphthalimides as clathrin inhibitors. *J. Med. Chem.* **57**, 131-43

2013

116. Wieffer, M., Cibrián Uhalte, E., Posor, Y., Otten, C., Branz, K., Schütz, I., Mössinger, J., Schu, P., Abdelilah-Seyfried, S., Krauß, M., **Haucke, V.** (2013) PI4K2 β / AP-1-based TGN-endosomal sorting regulates Wnt signaling. *Curr Biol.*, **23**, 2185-90
115. Kononenko, N.L., Pechstein, A., **Haucke, V.** (2013) The tortoise and the hare revisited. *eLife*, **2**, e01233.
114. Shetty, A., Sytnyk, V., Iryna Leshchyns'ka, I., Puchkov, D., **Haucke, V.**, Schachner, M. (2013) The Neural Cell Adhesion Molecule NCAM Promotes Maturation of the Presynaptic Endocytotic Machinery by Switching Synaptic Vesicle Recycling from AP-3- to AP-2-Dependent Mechanisms. *J. Neurosci.*, **33**, 16828-45
113. Posor, Y., Eichhorn-Grünig, M., Puchkov, D., Schöneberg, J., Ullrich, A., Lampe, A., Müller, R., Zarbakhsh, Gulluni, F., Hirsch, E., Krauss, M., Schultz, C., Schmoranzer, J., Noe, F., **Haucke, V.** (2013) Spatiotemporal Control of Endocytosis by Phosphatidylinositol 3,4-Bisphosphate. *Nature*, **499**, 233-237 (see commentary by Schmid & Mettlen (2013) *Nature* [doi: 10.1038/nature12408])
112. Hua, Y., Woehler, A., Kahms., M., **Haucke, V.**, Neher, E., Klingauf, J. (2013) Blocking endocytosis enhances short-term synaptic depression under conditions of normal availability of vesicles. *Neuron*, **80**, 343-349.
111. Puchkov, D. and **Haucke, V.** (2013) Greasing the synaptic vesicle cycle by membrane lipids. *Trends Cell Biol.*, **23**, 493–503
110. Kononenko, N.L. and **Haucke, V.** (2013) Synaptic requiem: a duet for piccolo and bassoon. *EMBO Rep.*, **32**, 920-922
109. Garrison, A.R., Radoshitzky, S.R., Kota, K.P., Pegoraro, G., Ruthel, G., Kuhn, J.H., Altamura, L.A., Kwilas, S.A., Bavari, S., **Haucke, V.**, Schmaljohn, C.S. (2013) Crimean-Congo hemorrhagic fever virus utilizes a clathrin- and early endosome-dependent entry pathway. *Virology*, **444**, 45-54
108. Kochlamazashvili, G. and **Haucke, V.** (2013) A dual role of SNAP-25 as carrier and guardian of synaptic transmission. *EMBO Rep.*, **14**, 579-80.
107. Sakaba, T., Kononenko, N., Bacetic, J., Pechstein, A., Schmoranzer, J., Yao, L., Barth, H., Shupliakov, O., Kobler, O., Aktories, K., **Haucke, V.** (2013) Fast neurotransmitter release regulated by the endocytic scaffold intersectin. *Proc Natl Acad Sci U S A*, **110**, 8266-71
106. Chowdhury, D., Marco, S., Brooks, I.M., Zanduetta, A., Rao, Y., **Haucke, V.**, Wesseling, J., Tavalin, S.J., Perez-Otano, I. (2013) Tyrosine phosphorylation regulates the endocytosis and surface expression of GluN3A-containing NMDA receptors. *J. Neurosci.*, **33**, 4151-64

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Invited Lectures & Conferences 2010 - 2016

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03/2010	Singapore Lipid Symposium, Singapore
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05/2010	Center for Molecular Neurobiology (ZMNH), Hamburg
06/2010	Vesicle Transport & Cancer Symposium, Turku, Finland
06/2010	Dept. of Pharmacology, Univ. of Washington, Seattle, USA
06/2010	Taub Center, Columbia Univ., New York, USA
06/2010	GRC "Lysosomes & Endocytosis", Andover, NH, USA
07/2010	GRC "Cell Biology of the Neuron", Waterville Valley, NH, USA
09/2010	Cancer Research UK, London, UK
10/2010	ESF EuroMembrane Workshop on Lipids, Italy
02/2011	Biotechnology Center, Univ. of Helsinki, Finland
02/2011	Max Planck Institute for Molecular Physiology, Dortmund
02/2011	Biotechnology Center, Univ. of Helsinki, Finland
*03/2011	11th Hunter Symposium, Hunter Valley, NSW, Australia
06/2011	SFB Meeting on "Cell Dynamics", Münster, Germany
09/2011	The 3rd EMBO Meeting, Vienna, Austria
09/2011	OIST International Meeting on "Presynaptic function", Okinawa, Japan
09/2011	European Neuroscience Institute Symposium, Göttingen
10/2011	Symposium on Calcium Signaling, Homburg
10/2011	ESF Meeting EuroSynapse, Turku, Finland
*11/2011	"The Killam Lecture", McGill University, Montreal, Canada
11/2011	Yale University School of Medicine Program in Cellular Neuroscience, Neurodegeneration and Repair, New Haven, CT, USA
03/2012	EuroMembrane Workshop, Turku, Finland
04/2012	Schizophrenia International Research Society, Florence, Italy

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- 06/2012 International Conference "Membrane Dynamics in Physiology and Disease", Basel, Switzerland
- 09/2012 International Symposium Protein Trafficking in Health and Disease, Hamburg
- 10/2012 International SFB/Transregio 83 Symposium, Heidelberg
- 10/2012 University of Düsseldorf
- 11/2012 Center vor Human Genetics & VIB, Leuven, Belgium
- 12/2012 JSPS Symposium on Synaptic Transmission, Kyoto, Japan
- 01/2013 Department of Biochemistry, University of Mainz
- 02/2013 Annual Meeting of the Biophysical Society, Philadelphia, USA
- 03/2013 Meeting of the German Neuroscience Society, 3rd Schram Foundation Symposium, Neuronal Differentiation, Synapses and Neural Circuits, Göttingen
- 04/2013 Symposium on Exo-Endocytic Coupling; International Society for Neurochemistry, Cancun, Mexico
- 04/2013 Annual Meeting of the American Society for Biochemistry & Molecular Biology (ASBMB), Boston, USA
- 04/2013 Biochemistry Center (BZH), University of Heidelberg
- 05/2013 University of Torino, Molecular Biotechnology Center, Torino, Italy
- 06/2013 SFB 803 & Faculty of Chemistry, University of Göttingen
- 09/2013 International Symposium on Cellular Microcompartments, Osnabrück
- 10/2013 Janelia Conference on Synaptic Vesicle Biogenesis, Janelia Farm, MD, USA (co-organizer)
- 10/2013 International Symposium on Membrane Kinesis, Frankfurt
- 10/2013 EMBL, Heidelberg
- 11/2013 Cancer Research UK, London, UK
- 12/2013 Annual Symposium of the NeuroNetwork, Mainz
- 01/2014 9th Annaberg Conference (EMBO Workshop), Goldegg, Austria
- 02/2014 Laboratory for Molecular Biology (LMB) & Cambridge Institute for Medical Research (CIMR), Cambridge, UK
- 03/2014 EMBO Conference "Signaling to and from Endomembranes", Konstanz, Germany

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- 03/2014 "The Active Zone Meeting", Würzburg, Germany
- 03/2014 International conference on "Membranes and Modules", Berlin, Germany
- 04/2014 Neuroscience Winter Conference, Sölden, Austria
- *04/2014 "Perspectives in Molecular Medicine Lecture", Goethe-Universität Frankfurt am Main, Germany
- 05/2014 16th European Congress for Endocrinology, Wroclaw, Poland
- 05/2014 IGBM, Strasbourg, France
- 06/2014 International Conference on "Membrane Dynamics", Münster, Germany
- 06/2014 Gordon Conference "Cell Biology of the Neuron", NH, US
- 08/2014 International LIN Symposium on "Synaptic function and synaptic pathology in disease", Tangermünde, Germany
- 10/2014 SFB 638 International Symposium "Macromolecular Complexes in Biosynthetic Transport", Heidelberg, Germany
- 10/2014 "39th Symposium on Hormone and Cell Regulation", Mont Saint-Odile/ Strasbourg, France
- 10/2014 The EMBO Meeting, Heidelberg, Germany
- 10/2014 Cell Biology Meeting, Utrecht, Netherlands
- 12/2014 American Society for Cell Biology (ASCB) Annual Meeting, Philadelphia (Invited Chair for Membrane Traffic)
- 01/2015 Keystone Symposia on Molecular and Cellular Biology 2015, PI 3-Kinase Signaling Pathways in Disease, Vancouver, Canada
- 05/2015 18th Annual Meeting Club Exo-Endocytosis, Evian-les-Bains, Switzerland
- 07/2015 FEBS Meeting, Berlin (Chair of Organizing Committee)
- 08/2015 25th International Society for Neurochemistry (ISN) Meeting, Cairns, Australia
- 09/2015 Neuroscience Ireland Conference - Frontiers in Neuroscience: Diseases & Treatments, Dublin, Ireland
- 09/2015 Symposium "Mechanisms of synaptic transmission", Univ. Paris Descartes
- 11/2015 Institut de Biologie de l'École Normale Supérieure (IBENS), Paris, France
- 03/2016 Bristol Biochemistry Colloquium, Univ. of Bristol, UK

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- 05/ 2016 Chorea-Acanthocytosis & Vesicular-Vacuolar Transport, Ann Arbor, MI, USA
- 06/2016 Gordon Conference "Lysosomes & Endocytosis", NH, USA
- 07/2016 FENS/ IBRO CAJAL Advanced course 'Neuronal Cell Biology - Cytoskeleton and Trafficking', Bordeaux, France
- 07/2016 FASEB Summer Conference "Phospholipid Signaling", Steamboat Springs, CO, USA
- 09/2016 National Institutes of Health Neuroscience Seminar Series, Bethesda, MD, USA
- 09/2016 JSPS core-to-core symposium Okinawa Institute of Science and Technology, Okinawa, Japan
- 11/2016 GdCh Kolloquium, Univ. of Kaiserslautern, Germany
- 11/ 2016 Workshop on PI3K Biology, Univ. College London (UCL), UK
- 12/2016 Invited Lecture, Medical University Lübeck, Germany
- 01/2017 Keystone Conference "PI3K Pathways in Immunology, Growth Disorders and Cancer", Santa Fe, New Mexico, USA
- 04/2017 Jacques Monod Conference on "Membrane remodelling & organization", Roscoff, France
- 04/2017 ASBMB Annual Meeting 2017, Chicago, IL, USA
- 05/2017 EMBO Conference "Cell Biology of the Neuron: Polarity, Plasticity and Regeneration", Crete, Greece
- 05/2017 EMBO|EMBL SYMPOSIUM: Molecular and Cell Biology of Membranes, EMBL, Heidelberg, Germany
- 06/2017 International Symposium on Protein Trafficking in Health and Disease, Hamburg, Germany
- 07/2017 EMBO Practical Course "Protein-Lipid interactions: Advanced experimental and computational tools", Helsinki, Finland
- 07/2017 "International Symposium Imaging Frontiers" (ISIF 2017), Tokyo, Japan

Upcoming

- 07/2017 EMBO "Europhosphatase Conference 2017", Paris, France
- 10/2017 Chilean Cell Biology Meeting, Puerto Varas, Chile
- 10/2017 Symposium on Presynaptic Function, Catholic University, Santiago de Chile, Chile
- 11/2017 Symposium on Synaptic Transmission, Kyoto, Japan

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- 02/ 2018 Keystone Symposium on "New Therapeutic Targets beyond Class I PI3K", Taos, New Mexico, USA
- 06/2018 Gordon Conference "Cell Biology of the Neuron", Waterville Valley, New Hampshire, USA
- 09/2018 Cajal Workshop on the "Cell Biology of Neurons", Bordeaux, France