

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
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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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| 2020 | Feldberg Prize for Research in Physiology and Pharmacology |
| 2017 | Elected Member of the Berlin-Brandenburg Academy of Sciences (BBAW) |
| 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)

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

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)

September 2018, 3rd International Conference on "Membranes & Modules", Berlin (Co-
organizer)

September 2018, Cajal Workshop on the "Cell Biology of Neurons", Bordeaux, France (main
organizer)

May 2020, Keystone Conference "PI3K and PTEN in Cell Growth & Disease" (main organizer
with Bart Van Haesebroeck) Hannover, Germany

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., Kaempfer, 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
- *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., Kaempfer, 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

2019

183. Jäpel, M., Sakaba, T., Gerth, F., Bacetic J., Koo, S.J., Maritzen, T., Freund, C., **Haucke, V. (2019)** Intersectin-mediated clearance of SNARE complexes is required for fast neurotransmission. Submitted
182. Wang, H., Lo, W.T., **Haucke, V. (2019)** Phosphoinositide switches in endocytosis and in the endolysosomal system. *Curr. Op. Cell Biol*, submitted [Invited review]
181. Papin, L., Lehmann, M., Lagisquet, J., Maarifi, G., Robert-Hebmann, V., Demette, E., Urbach, S., Mariller, C. Guerardel, Y., Espert, L., Biard-Piechaczyk, M., Nisole, S., **Haucke, V.**, Blanchet, F.P. **(2019)** Antimicrobial response via a TRIMosome-mediated autophagy pathway upon DC-SIGN engagement. Submitted
180. Pascolutti, R., Algisi, V., Conte, A., Raimondi, A., Pasham, M., Upadhyayula, S., Gaudin, R., Maritzen, T., Barbieri, E., Caldieri, G., Freddi, S., Confalonieri, S., Malabarba, M.G., Maspero, E., Polo, S., Tacchetti, C., **Haucke, V.**, Kirchhausen, T., Di Fiore, P.P., Sigismund, S. **(2019)** Molecularly distinct clathrin-coated pits differentially impact on EGFR fate and signaling. Submitted
179. Dejonghe, W., Sharma, I., Denoo, B., De Munck, S., Bulut, H., ⁶ Mylle, E., Vasileva, M., Lu, Q., Savatin, D.V., Kiril Mishev, K., Nerinckx, W., Staes, A., Drozdzecki, A., Audenaert, D., Madder, A., Friml, J., Van Damme, D., Gevaert, K., **Haucke, V.**, Savvides, S., Winne, J., Russinova, E. **(2019)** Disruption of endocytosis through chemical inhibition of clathrin heavy chain function. *Nature Chem Biol.*, in press
178. Matthäus, C., Lahmann, I., Kunz S., Jonas, W., Alves de Melo, A., Lundmark R., Lehmann, M., **Haucke, V.**, Müller, D., Schürmann, A., Birchmeier-Kohler, C., Daumke, O. **(2019)** EHD2-mediated caveolar dynamics is crucial for lipid uptake and obesity. Submitted

2018

177. Maani, N., Sabha, N., Rezai, K., Ramani, A., Groom, L., Eltayeb, N., Mavandadnejad, F., Pang, A., Russo, G., Brudno, M., **Haucke, V.** Dirksen, R.T., Dowling, J.J. **(2018)** TAM4MTM: tamoxifen therapy in a murine model of myotubular myopathy. *Nature Communications*, **9**, 4849. doi: 10.103
176. 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.** *(2018) Presynaptic biogenesis requires axonal transport of lysosome-related vesicles. *Neuron* **99**, 1216-1232.e7 (*co-corresponding authors)
175. **Haucke, V.** and Kozlov, M.M. **(2018)** Membrane remodelling in clathrin-mediated endocytosis. *J. Cell Sci*, jcs216812. doi: 10.1242/jcs.216812
174. Wang, H., Lo, W.T., Vujičić Žagar, A., Gulluni, F., Scapozza, L., **Haucke, V.***, Vadas, O.* **(2018)** Autoregulation of class II alpha PI3K activity by its lipid binding PX-C2 domain module. *Mol. Cell* **71**, 343-351 (*co-corresponding authors)

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173. Meyer, K., Kirchner, M.L., Uyar, B., Cheng, J.Y., Russo, G., Hernandez-Miranda L.R., Szymborska, A., Zauber, H., Rudolph, I.M., Akalin, A., Willnow, T.E., **Haucke, V.**, Gerhardt, H., Birchmeier, C., Kühn, R., Krauss, M., Diecke, S., Pascual J.M., Selbach, M. (2018) Mutations in disordered regions cause disease by creating dileucine motifs. *Cell* **175**, 239–253
172. Buntz, A., Killian, T., Schmid, D., Seul, H., Brinkmann, U., Ravn, Jacob, Lindholm, M., Knoetgen, H., **Haucke, V.**, Mundigl, O. (2018) Quantitative fluorescence imaging determines the absolute number of locked nucleic acid oligonucleotides needed for suppression of target gene expression. *Nucleic Acids Res.* doi: 10.1093/nar/gky1158 [epub ahead of print]
171. Kath C, Goni-Oliver P, Müller R, Schultz C, **Haucke V.**, Eickholt B, Schmoranzner J. (2018) PTEN suppresses axon outgrowth by down-regulating the level of dephosphorylated microtubules. *PLoS One* **13**, e0193257 [doi: 10.1371/journal.pone.0193257]
170. Azarnia Tehran, D.*, Kuijpers, M.*, **Haucke., V.** (2018) Presynaptic endocytic factors in autophagy and neurodegeneration. *Curr. Op. Neurobiol.*, **48**, 153-159
169. Maritzen, T., **Haucke, V.** (2018) Coupling of Exocytosis and Endocytosis at the Presynaptic Active Zone. *Neurosci. Res.*, **127**, 45-52
168. Wallroth, A., **Haucke, V.** (2018) Phosphoinositide conversion in endocytosis and in the endolysosomal system. *J Biol. Chem.* **293**, 1526-1535 [doi: 10.1074]

2017

167. Walter, A.M., Müller, R., Tawfik, B., Wierda, K.D.B., Pinheiro, P.S., Nadler, A., McCarth, A.W., Ziolkiewicz, I., Kruse, M., Reither, G., Rettig, J., Lehmann, M., **Haucke, V.**, Hille, B., Schultz, C., Sørensen, J.B. (2017) Phosphatidylinositol 4,5-bisphosphate optical uncaging potentiates exocytosis. *eLife* **6** pii: e30203
166. Lo, W.T., Vujičić Žagar, A., Gerth, F., Lehmann, M., Puchkov, D., Krylova, O., Freund, C., Scapozza, L., Vadas, O., **Haucke, V.** (2017) A coincidence detection mechanism controls PX-BAR domain mediated endocytic membrane remodeling via an allosteric structural switch. *Dev. Cell*, **43**, 522-529
165. Gerth, F.*, Jäpel, M.*, Pechstein, A.*, Kochlamazashvili, G., Lehmann, M., Puchkov, D., Onofri, F., Benfenati, F., Nikonenko, A.G., Fredrich, K., Shupliakov, O., Maritzen, T., Freund, C., **Haucke, V.** (2017) Intersectin associates with synapsin and regulates its nanoscale localization and function. *Proc Natl Acad Sci* **114**, 12057-12062
164. Wallroth, A., **Haucke, V.** (2017) A lipid off-switch for mTORC1. *Mol. Cell. Oncol.* **4**:e1356899
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.,

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- 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.*, **20**, 1096-1103
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., Kaempfer, 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., Gauhar, A., Bock, H., 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., Schmoranzler, 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., Schmoranzler, J., Poole, K., Lewin, G.R. (2017) Small molecule inhibition of STOML3 oligomerization reverses pathological mechanical hypersensitivity. *Nature Neurosci.* **20**, 209-218

2016

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

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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., Schmutte, 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., 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)
142. 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]
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.**, Schmoranzer, 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)

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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.**, 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
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21. **Haucke, V. (2000)** Bursting for SNAREs. *Trends Cell Biol.*, **10**, 135-136
22. **Haucke, V. (2000)** When bulk flow meets cargo receptors. *Trends Cell Biol.*, **10**, 52-53
19. **Haucke, V., De Camilli, P. (1999)** AP-2 recruitment to synaptotagmin stimulated by tyrosine-based endocytic motifs. *Science*, **285**, 1268-1271
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17. **Haucke, V. (1999)** On a snailroad to the nucleus. *Trends Cell Biol.*, **9**, 299
16. **Haucke, V. (1999)** Get your stacks together. *Trends Cell Biol.*, **9**, 256
15. **Haucke, V. (1999)** No diffusion beyond this point. *Trends Cell Biol.*, **9**, 172
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13. **Haucke, V. (1999)** Mutant mouse sheds light on storage-pool deficiency. *Trends Cell Biol.*, **9**, 8
12. Takei, K., **Haucke, V., Slepnev, V.I., Farsad, K., Salazar, M., Chen, H., De Camilli, P. (1998)** Generation of coated intermediates of clathrin-mediated endocytosis on protein-free liposomes. *Cell*, **94**, 131-141
11. **Haucke, V. (1998)** SNAREs go mitochondrial. *Trends Cell Biol.*, **8**, 434-435
10. **Haucke, V. (1998)** A beautiful picture of TOM. *Trends Cell Biol.*, **8**, 345
9. **Haucke, V. (1998)** Vesicle budding - can lipids do it all? *Trends Cell Biol.*, **8**, 307-308
8. **Haucke, V., Schatz, G. (1997)** Reconstitution of the protein insertion machinery of the mitochondrial inner membrane. *EMBO J.*, **16**, 4560-4567
7. **Haucke, V., Santos Ocana, C., Hönlinger, A., Tokatlidis, K., Pfanner, N., Schatz, G. (1997)** Analysis of the sorting signals directing NADH-cytochrome b₅ reductase to two locations within yeast mitochondria. *Mol. Cell. Biol.*, **17**, 4024-4032
6. **Haucke, V. and Schatz, G. (1997)** Import of proteins into mitochondria and chloroplasts. *Trends Cell Biol.*, **7**, 103-106
5. **Haucke, V. and Lithgow, T. (1997)** The first steps of protein import into mitochondria. *J. Bioenerg. Biomembr.*, **29**, 11-17
4. **Haucke, V., Horst, M., Schatz, G., Lithgow, T. (1996)** The Mas20p and Mas70p subunits of the protein import receptor of yeast mitochondria interact via the tetratricopeptide repeat motif in Mas20p: evidence for a single hetero-oligomeric receptor. *EMBO J.*, **15**, 1231-1237
3. **Haucke, V., Lithgow, T., Rospert, S., Hahne, K., Schatz, G. (1995)** The yeast mitochondrial protein import receptor Mas20p binds precursor proteins through electrostatic interactions with the positively charged presequence. *J. Biol. Chem.*, **270**, 5565-5570

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2. Gratzer, S., Lithgow, T., Bauer, R.E., Lamping, E., Paltauf, F., Kohlwein, S.D., **Haucke, V.**, Junne, T., Schatz, G. and Horst, M. (1995) Mas37p, a novel subunit for protein import into mitochondria. *J. Cell Biol.*, **129**, 25-34
1. Hahne, K., **Haucke, V.**, Ramage, L., Schatz, G. (1994). Incomplete arrest in the outer membrane sorts NADH-cytochrome b5 reductase to two different submitochondrial compartments. *Cell*, **79**, 829-839

Book Articles & Other Publications

(corresponding author underlined)

12. **Haucke, V.** and Glick, B.S. (2015) Gottfried Schatz (1936-2015) - mitochondrial pioneer and ambassador for science. *EMBO J.*, **34**, 2725-2726
11. Faelber, K., Gao, S., Held, M., Posor, Y., **Haucke, V.**, Noe, F., Daumke, O. (2012) Oligomerization of Dynamin Superfamily Proteins in health and Disease. *Progress in Molecular Biology and Translational Science*, **117**, 411-443
10. Wieffer, M., **Haucke, V.**, Krauss, M. (2012) Regulation of phosphoinositide metabolizing enzymes by clathrin coat proteins. *Meth. Cell Biol*, **108**, 209-25
9. Rodemer, C. and **Haucke, V.** (2008) Clathrin/ AP-2-dependent endocytosis: a novel playground for the pharmacological toolbox? *Handb. Exp. Pharmacol.*, **186**, 105-22.
8. Gundelfinger, E. and **Haucke, V.** (2007) Presynaptic Organization: Endocytosis and Presynaptic Scaffolds. In: L. R. Squire (Ed.) *New Encyclopedia of Neuroscience*, Elsevier - Academic Press
7. **Haucke, V.** and Klingauf, J. (2007) Endocytosis in neurons. In: A. Bean (Ed.) *Protein Trafficking in Neurons*, Elsevier - Academic Press
6. Krauss, M. and **Haucke, V.** (2006) Protein and membrane transport in eukaryotic cells. In: W. Birchmeier et al. (Ed.) *Encyclopedia of Cell Biology*, Springer-Verlag, Berlin-Heidelberg
5. **Haucke, V.** and Shupliakov, O. (2006) Synaptic Endosomes. In: I. Dikic (Ed.) *Endosomes*, Landes Biosciences, pp. 68-74
4. Krauss, M. and **Haucke, V.** (2005) Functional assay of effectors of ADP ribosylation factor 6 during AP-2/clathrin coat recruitment to membranes. *Meth. Enzymol.*, **404**, 388-98
3. De Camilli, P., **Haucke, V.**, Takei, K., Mugnaini, E. (2001) The structure of synapses. In: M.W. Cowan und K.A. Davis (Ed.) *Synapses*, Johns Hopkins Univ. Press [textbook]
2. **Haucke, V.** and De Camilli, P. (1998) Molecular mechanisms of endocytosis. Online Proceedings of the 5th Internet World Congress on Biomedical Sciences available at URL: <http://www.mcmaster.ca/inabis98/klip/haucke0212/index.html>
1. Lithgow, T., Horst, M., Rospert, S., Matouschek, A., **Haucke, V.**, Schatz, G. (1995) Import and folding of proteins by mitochondria. *Cold Spring Harbor Sympos. Quant. Biol.*, **65**, 609-617

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Invited Lectures & Conferences 2010 - 2018 (selection)

(named and plenary lectures highlighted by *)

03/2010	Singapore Lipid Symposium, Singapore
05/2010	Max-Planck Institute for Biophysical Chemistry, Göttingen
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
- 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
- 12/2017 Symposium on Synaptic Transmission, Kyoto, Japan
- 12/2017 The Hebrew University of Jerusalem, Jerusalem, Israel
- 02/ 2018 Keystone Symposium on "New Therapeutic Targets beyond Class I

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PI3K", Taos, New Mexico, USA

- 02/2018 Distinguished Seminar, The Beatson Institute for Cancer Research, Glasgow, UK
- 03/2018 EMBO Conference on "Neural Development", Taipeh, Taiwan
- 04/2018 EU-ITN Workshop on "Imaging and manipulating phospholipids", Berlin, Germany (main organizer)
- 05/2018 EMBO Workshop "Lysosomes and Metabolism", Naples, Italy
- 05/ 2018 Biochemistry Center Heidelberg (BZH) Lecture, Heidelberg, Germany
- 06/2018 Gordon Conference "Cell Biology of the Neuron", Waterville Valley, New Hampshire, USA
- 07/2018 FASEB Conference on Phospholipids: Dynamic Lipid Signaling in Health& Disease, Steamboat Springs, CO, USA
- 09/2018 Cajal Workshop on the "Cell Biology of Neurons", Bordeaux, France (main organizer)
- 09/2018 International conference "Membranes and Modules", Berlin, Germany (co-organizer)
- 10/ 2018 Workshop on "The cell biology behind the oncogenic PIP3 lipids", Baeza, Spain
- 10/ 2018 Cold Spring Harbor meeting on "Nutrient Signaling", CSH, New York, USA
- 11/2018 TIGEM - Telethon Institute of Genetics and Medicine, Naples, Italy
- 12/2018 Symposium on Synaptic Transmission, Kyoto, Japan

Upcoming (selection)

- 01/2019 MRC Laboratory for Molecular Cell Biology (LMCB), London, UK
- 02/2019 Main organizer of the Leibniz Research Alliance (LRA) Healthy Ageing Symposium, Berlin, Germany
- 03/2019 German Neuroscience Meeting, "Armin-Schram-Plenary Lecture", Göttingen, Germany
- 04/2019 Joint meeting of the British Societies of Cell Biology (BSCB) and Developmental Biology (BSDB), Warwick, UK
- 04/2019 Spring Meeting of the German Society for Biochemistry & Molecular Biology (GBM), Mosbach, Germany
- 04/2019 Symposium on "Membrane Shaping & Remodelling", Xiuning, China
- 08/2019 Plenary Lecture at the International Society for Neurochemistry (ISN)-ASN Meeting, Montreal, Canada

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- 09/2019 IBRO Meeting on "Synaptic Function and Neural Circuitry", Busan, South Korea
- 10/2019 Workshop on "Alzheimer's and Autophagy", New York, USA
- 05/2020 Keystone Conference "PI3K and PTEN in Cell Growth & Disease" (main organizer) Hannover, Germany