

CV - Volker Haucke, Ph.D.

Volker Haucke Ph.D.

Born: June 29, 1968, Berleburg, Germany

Institutional address: Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP)

Department of Molecular Pharmacology and Cell Biology

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Education and Professional Experience

- | | |
|----------------|--|
| 2012 – present | Full Professor of Molecular Pharmacology, Freie Universität Berlin & Director at the Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP), faculty member of Charité-University Medicine Berlin |
| 2020 | Professeur invité, Université Paris Descartes, Paris, France |
| 2005 - 2011 | Full Professor of Biochemistry (W3), FU Berlin, Department of Membrane Biochemistry |
| 2004, 2008 | Offer for full professorships (both declined), Universities of Konstanz & Bonn |
| 2003 - 2005 | Professor of Biochemistry (C3), FU Berlin, Department of Membrane Biochemistry |
| 2003 | Habilitation (venia legendi), Biochemistry, University of Göttingen |
| 2000 – 2003 | Independent junior research group leader; 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 |

Scientific Affiliations

Board Member, TRR 186 "Molecular Switches"

Member & Principal Investigator, NeuroCure Cluster of Excellence

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

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

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

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

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

Vice-Chair & Board Member, CRC 958 "Scaffolding of Membranes"

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Honors

Since 2023	President, German Society for Biochemistry & Molecular Biology (GBM)
2021 - 2023	Vice-President, German Society for Biochemistry & Molecular Biology (GBM)
2020	ERC Advanced Grant, European Research Council
2020	Feldberg Prize for Research in Physiology and Pharmacology
2020 - 2021	Professeur invité at the Institute of Psychiatry and Neuroscience of Paris, Université Paris Descartes (iPNP)
2019	Elected Member of the Academia Europaea/ Academy of Europe (AE)
2019	Armin Schram Lecture of the German Neuroscience Society
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)
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

Advisory & Editorial Boards

Academic Advisor/ Consultant, Roche Diagnostics, Penzberg, Germany (since 2017)

Member of the Scientific Advisory Board, DANDRITE-Danish Research Institute for Translational Neurosciences, Aarhus, Denmark (since 2023)

President of the Scientific Advisory Board, Institute of Psychiatry and Neuroscience of Paris, Université Paris Descartes (iPNP) (since 2020)

Chairman (since 2021) & Member (since 2017), Scientific Advisory Board, Leibniz Institute on Aging-Fritz Lipmann Institute (FLI)

Advisory Board Member, German Society for Biochemistry & Mol. Biol. (GBM) (2020 - 2021)
Neuroscience Advisory Board Member, Faculty Opinions

Member, Scientific Advisory Board, Leibniz Science Campus InterACT, Hamburg (since 2020)
Scientific Advisory Board of open access platform *Matters* (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)

Editorial Board, Cell Stress (since 2018)

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

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Conference Organization (selection)

May 2024	European Synapse Meeting, Berlin, Germany (Co-organizer)
May 2020	Keystone Conference "PI3K and PTEN in Cell Growth & Disease" (main organizer with Bart Van Haesebroeck) Hannover, Germany - cancelled due to Covid-19
September 2018	Cajal Workshop "Cell Biology of Neurons", Bordeaux, France (main organizer)
September 2018	3rd International Conference, "Membranes & Modules", Berlin (Co-organizer)
July 2015	Federation of the European Biochemical Societies (FEBS) - Annual Meeting (Chair)
October 2013	Janelia Conference on Synaptic Vesicle Biogenesis, Janelia Farm, MD, USA (Co-organizer w/ Pietro De Camilli, Yale, and Tim A. Ryan, Cornell)
March 2013	2nd International Conference on "Membranes & Modules", Berlin (Co-organizer)
December 2010	International Conference "From protein structure to membrane dynamics", Berlin (Chair)
October 2010	Workshop "Trends in Microscopy", Berlin (Co-chair w/ Stephan Sigrist)
December 2009	1st International Conference, "Membranes & Modules", Berlin (Co-Chair)
May/ June 2006	International Meeting "Cell Biology of the Synapse", Paris (Co-organizer w/ Thierry Galli, Paris)

PhD students and postdocs supervised

PhD students who successfully completing their thesis

Mariette Bergmann, Svenja Bolz, Gala A. Claßen, Katrin Diesenberg, M. Kasim Diril, Fabian Feutlinske, Niclas Gimber, Hannes Gonschior, Claudia Gras, Maria Jäpel, Burkhard Jakob, Junyong Jia, Nadja Jung, Natalie Kaempf, Nina Kahlfeld, Kathrin Kastning, Katharina Ketel, Philipp A. Koch, Seongjoo Koo, Andre Lampe, Guan-Ting Liu, Wen-Ting Lo, Fabian Lukas, Albert Mackintosh, Julia Mössinger, Arndt Pechstein, Jasmin Podufall, York Posor, Yijian Rao, F. Sila Rizalar, Paula Samsó, Linda Sawade, Michael R. Schmidt, Irene Schütz, Wiebke Stahlschmidt, Dennis Vollweiter, Lisa von Kleist, Anela Vukoja, Alexander Wallroth, Kristin Walther

Former PhD students and postdocs in leading academic positions

Dr. Alexander Walter, Professor, University of Copenhagen, Denmark; Dr. Natalia Kononenko, Professor, University of Cologne, Germany; Dr. Tanja Maritzen, Professor, Univ. of Kaiserslautern, Germany; Dr. Jan Schmoranz, Head Core Facility Imaging, Charite University Medicine, Berlin, Germany; Dr. Kasim Diril, Senior Group Leader, Izmir Biomed. & Genome Ctr, Turkey; Dr. Yijian Rao, Professor, Jiangnan University, China.

10 Representative Publications

1. Rizalar, F.S., Lucht, M.T., Petzoldt, A., Kong, S., Sun, J., Telugu, N.S., Diecke, S., Kaas, T., Bullmann, T., Schmied, C., Cho, W., Hallermann, S., Puchkov, D., Sigrist S.J., **Haucke, V. (2023)** Phosphatidylinositol 3,5-bisphosphate-controlled vesicle transport directs presynapse assembly. *Science* **382** (6667), 223-230. DOI: 10.1126/science.adg1075 (see commentary by Rivero-Rios & Weisman in *Science*, **382** (6667), DOI: 10.1126/science.adf5037)
2. Ebner, M., Puchkov, D., Lopez Ortega, O., Muthukottiappan, P., Zillmann, S., Schmied, C., Su, Y., Nikonenko, I., Koddebusch, J., Dornan, G.L., Lucht, M.T., Koka, V., Jang, W., Koch, P.A., Wallroth, A., Lehmann, M., Brügger, B., Pende, M., Winter, D., **Haucke, V. (2023)** Nutrient regulated control of lysosome function by signaling lipid conversion. *Cell*, online ahead of print. doi: 10.1016/j.cell.2023.09.027.
3. Jang, W., Puchkov, D., Samso, P., Liang, Y.T., Nadler-Holly, M., Sigrist, S.J., Kintscher, U., Liu, F., Mamchaoui, K., Mouly, V., **Haucke, V. (2022)** Endosomal lipid signalling reshapes the endoplasmic reticulum to control mitochondrial function. *Science* **378**, eabq5209. DOI: 10.1126/science.abq5209 (see perspective by Zanellati & Cohen in *Science*, **378** (6625), DOI: 10.1126/science.adf5112)
4. Lo, W.T., Zhang, Y., Vadas, O., Belabed, H., Roske, Y., Gulluni, F., De Santis, M.C., Vujicic Zagar, A., Stephanowitz, H., Hirsch, E., Liu, F., Daumke, O., Kudryashev, M., **Haucke, V. (2022)** Structural basis of PI3KC2 α function. *Nat Struct Mol Biol.* **29**, 218- 228; doi: 10.1038/s41594-022-00730-w. (see News & Views by Deng & Liu (2022) *Nat Struct Mol Biol.* **29**, 185–187)
5. Kuijpers, M., Kochlamazashvili, G., Stumpf, A., Puchkov, D., Swaminathan, A., Lucht, M.T., Krause, E., Schmitz, D., **Haucke, V. (2021)** Neuronal autophagy regulates presynaptic neurotransmission by controlling the axonal endoplasmic reticulum. *Neuron* **109**, 299-313
6. Lopez-Hernandez, T., Puchkov, D., Krause, E., Maritzen, T., **Haucke, V. (2020)** Endocytic regulation of cellular ion homeostasis controls lysosome biogenesis. *Nat Cell Biol.* **22**, 815-27. doi: 10.1038/s41556-020-0535-7.
7. 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])
8. 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 News & Views by Balla (2016) *Nature* [doi: 10.1038/nature16868])
9. Posor, Y., Eichhorn-Grünig, M., Puchkov, D., Schöneberg, J., Ullrich, A., Lampe, A., Müller, R., Zarbakhsh, S., Gulluni, F., Hirsch, E., Krauss, M., Schultz, C., Schmoranzler, J., Noe, F., **Haucke, V. (2013)** Spatiotemporal Control of Endocytosis by Phosphatidylinositol 3,4-Bisphosphate. *Nature* **499**, 233-237 (see News & Views by Schmid & Mettlen (2013) *Nature* [doi: 10.1038/nature12408])
10. 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

Complete List Publications in Peer-Reviewed Journals

2023

243. Sun, J., Song, S., Zalejski, J., Singaram, I., Sharma, A., Wang, W., Hu, Y., Lo, W.T., Koch, P.A., Zhao, J.J., **Haucke, V.**, Gao, R., Cho, W. (2023) PI(3,5)P₂ controls the signaling activity of class I PI3K. *BioRxiv*. doi: 10.1101/2023.01.25.525550.
242. Aguirre, T., Hostachy, S., Dornan, G.L., Neuenschwander, M., Seyffarth, C., Schütz, A., **Haucke, V.**, von Kries, J.P., Fiedler, D. (2023) An unconventional gatekeeper mutation sensitizes inositol hexakisphosphate kinases to an allosteric inhibitor. *eLife* **12**, RP88982. DOI: <https://doi.org/10.7554/eLife.88982>
241. Küçükdisli, M.[#], Bel-Abed, H.[#], Cirillo, D. [#], Lo, W.T. [#], Efrem, N.L., Horatschek, A., Perepelittchenko, L., Prokofeva, P., Ehret, T., Radetzki, S., Neuenschwander, M., Specker, E., Médard, G., Müller-Knapp, S., Wilhelm, S., Kuster, B., von Kries, J.P., **Haucke, V.***, Nazaré, M.* (2023) Structural Basis for Highly Selective Class II alpha Phosphoinositide 3-Kinase Inhibition. *J. Med. Chem.* Online ahead of print [*co-corresponding last authors]
240. Sigrist, S.J. *, **Haucke, V. *** (2023) Orchestrating vesicular and non-vesicular membrane dynamics by intrinsically disordered proteins. *EMBO Rep*, Online ahead of print. e57758. doi: 10.15252/embr.202357758 [*co-corresponding last authors; review article]
239. Ebner, M., Puchkov, D., Lopez Ortega, O., Muthukottiappan, P., Zillmann, S., Schmied, C., Su, Y., Nikonenko, I., Koddebusch, J., Dornan, G.L., Lucht, M.T., Koka, V., Jang, W., Koch, P.A., Wallroth, A., Lehmann, M., Brügger, B., Pende, M., Winter, D., **Haucke, V.** (2023) Nutrient regulated control of lysosome function by signaling lipid conversion. *Cell*, online ahead of print. doi: 10.1016/j.cell.2023.09.027.
238. Rizalar, F.S., Lucht, M.T., Petzoldt, A., Kong, S., Sun, J., Telugu, N.S., Diecke, S., Kaas, T., Bullmann, T., Schmied, C., Cho, W., Hallermann, S., Puchkov, D., Sigrist S.J., **Haucke, V.** (2023) Phosphatidylinositol 3,5-bisphosphate-controlled vesicle transport directs presynapse assembly. *Science* **382** (6667), 223-230. DOI: 10.1126/science.adg1075 (see commentary by Rivero-Rios & Weisman in *Science*, **382** (6667), DOI: 10.1126/science.adf5037)
237. Bolz, S., Kaempf, N., Puchkov, D., Krauss, M., Russo, G., Soykan, T., Schmied, C., Lehmann, M., Müller, R., Schultz, C., Perrais, D., Maritzen, M., **Haucke, V.** (2023) Synaptotagmin 1-triggered lipid signaling couples exo- and endocytosis. *Neuron* **111**, <https://doi.org/10.1016/j.neuron.2023.08.016>
236. Kuijpers, M., Nguyen, P.T., **Haucke, V.** (2023) The Endoplasmic Reticulum and Its Contacts: Emerging Roles in Axon Development, Neurotransmission, and Degeneration. *Neuroscientist*, doi: 10.1177/10738584231162810. Online ahead of print.
235. Vollweiler, D., Kaur Shergill, J., Hilse, A., Kochlamazashvili, G., Koch, S.P., Mueller, S., Boehm-Sturm, P., **Haucke, V.***, Maritzen, T.* (2023) Intersectin deficiency impairs cortico-striatal neurotransmission and causes obsessive-compulsive behaviors in mice. *Proc Natl Acad Sci USA* **120**, e2304323120. doi: 10.1073/pnas.2304323120 [*co-corresponding last authors]
234. Papin, L., Lehmann, M., Lagisquet, J., Maarifi, G., Robert-Hebmann, V., Mariller, C., Guerardel, Y., Espert, L., **Haucke, V.**, Blanchet, F.P. (2023) The Autophagy Nucleation Factor ATG9 Forms Nanoclusters with the HIV-1 Receptor DC-SIGN and Regulates Early Antiviral Autophagy in Human Dendritic Cells. *Int. J Mol Sci* **24**, 9008. doi: 10.3390/ijms24109008
233. Steinke, S., Kirmann, T., Loi, E.A., Nerlich, J., Weichard, I., Kuhn, P., Bullmann, T., Ritzau-Jost, A., Rizalar, F.S., Prüss, H., **Haucke, V.**, Geis, M., Hust, M. Hallermann, S. (2023) NMDA-receptor-Fc-fusion constructs neutralize anti-NMDA receptor antibodies. *Brain* **46**, 1812-1820. doi: 10.1093/brain/awac497.
232. Lo, W.T., Belabed, H., Küçükdisli, M., Metag, J., Roske, Y., Prokofeva, P., Ohashi, Y.,

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Horatschek, A., Cirillo, D., Krauss, M., Schmied, C., Neuenschwander, M., von Kries, J., Médard, G., Kuster, B., Perisic, O., Williams, R.L., Daumke, O., Payraastre, B., Severin, S., Nazaré, M., **Haucke, V.** (2023) Development of selective inhibitors of phosphatidylinositol 3-kinase C2 α . *Nat Chem Biol* **19**, 18-27. doi: 10.1038/s41589-022- 01118

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231. Jang, W., Puchkov, D., Samsó, P., Liang, Y.T., Nadler-Holly, M., Sigrist, S.J., Kintscher, U., Liu, F., Mamchaoui, K., Mouly, V., **Haucke, V.** (2022) Endosomal lipid signalling reshapes the endoplasmic reticulum to control mitochondrial function. *Science* **378**, eabq5209 (2022). DOI: 10.1126/science.abq5209 (see perspective by Zanellati & Cohen in *Science*, **378** (6625), DOI: 10.1126/science.adf5112)

230. Matthaeus, C., Sochacki, K.A., Dickey, A., Puchkov, D., **Haucke, V.**, Lehmann, M., Taraska, J.W. (2022) The molecular organization of flat and curved caveolae indicates bendable structural units at the plasma membrane. *Nat Commun* **13**, 7234. doi: 10.1038/s41467-022-34958-3.

229. Viard, J. et al., **Haucke, V.** et al Lepagnol-Bestel (2022) Chr21 protein-protein interactions: enrichment in proteins involved in intellectual disability, autism, and late-onset Alzheimer's disease. *Life Sci Alliance* **5**, e202101205. doi: 10.26508/lsa.202101205.

228. Gonschior, H., Schmied, C., van der Veen, R.E., Eichhorst, J., Himmerkus, N., Piontek, J., Günzel, D., Bleich, M., Furuse, M., **Haucke, V.**, Lehmann, M. (2022) Nanoscale segregation of channel and barrier claudins enables paracellular ion flux. *Nat Commun* **13**, 4985

227. Samsó, P.*, Koch, P.A.*, Posor, Y., Lo, W.T., Belabed, H., Nazare, M., Laporte, J., **Haucke, V.** (2022) Antagonistic control of active surface integrins by myotubularin and phosphatidylinositol 3-kinase C2 β in a myotubular myopathy model. *Proc Natl Acad Sci USA* **119**, e2202236119

226. Posor, Y., Kamyli, C., Bilanges, B., Koch, P.A., Wallroth, A., Morelli, D., Jenkins, M., Alliouachene, S., **Haucke, V.**, Vanhaesebroeck, B. (2022) Local synthesis of phosphatidylinositol-3,4-bisphosphate drives focal adhesion turnover. *Dev Cell* **57**, 1694- 1711.e7.

225. Posor, Y.*, Jang, W.*, **Haucke, V.** (2022) Phosphoinositides as membrane organizers. *Nat Rev Mol Cell Biol* **23**, 797-816. doi: 10.1038/s41580-022-00490-x

224. Gozzelino, L.*, Kochlamazashvili, G. *, Baldassari, S.*, Mackintosh, A.I., Licchetta, L., Iovino, E., Liu, Y.C., Regan, B.M., Bennett, M.F., Damiano, J.A., Zsurka, G., Marconi, C., Giangregorio, T., Magini, P., Maritzen, T., Norata, G.D., Baulac, S., Canafoglia, L., Seri, M., Tinuper, P., Scheffer, I.E., Bahlo, M., Berkovic, S.F., Hildebrand, M.S., Kunz, W.S., Giordano, L., Bisulli, F., Epi25 Collaborative, Martini, M.°, **Haucke, V.**°, Hirsch, E.°, Pippucci, T.° (2022) Defective lipid signaling caused by mTOR-activating ultra-rare variants in *PIK3C2B* underlies sporadic focal epilepsy. *Brain* **145**, 2313-2331. doi: 10.1093/brain/awac082.[°co-corresponding last authors]

223. Azarnia Tehran, D., Kochlamazashvili, G., Pampaloni, N.P., Sposini, S., Shergill, J.K., Lehmann, M., Pashkova, N., Schmidt, C., Löwe, D., Napieczynska, H., Heuser, A., Plested, A.J.R., Perrais, D., Piper, R.C., **Haucke, V.***, Maritzen, T.* (2022) Selective Endocytosis of Ca²⁺-permeable AMPARs by the Alzheimer's Disease Risk Factor CALM Bidirectionally Controls Synaptic Plasticity. *Science Advances* **8**, eabl5032 [*co- corresponding last authors]

222. Lo, W.T., Zhang, Y., Vadas, O., Belabed, H., Roske, Y., Gulluni, F., De Santis, M.C., Vujicic Zagar, A., Stephanowitz, H., Hirsch, E., Liu, F., Daumke, O., Kudryashev, M., **Haucke, V.** (2022) Structural basis of PI3KC2 α function. *Nat Struct Mol Biol.* **29**, 218- 228; doi: 10.1038/s41594-022-00730-w. (see News & Views by Deng & Liu (2022) *Nat Struct Mol Biol.* **29**, 185–187)

221. Li, H., Prever, L., Hsu, M.Y., Lo, W.T., Margaria, J.P., De Santis, M.C., Zanini, C., Forni, M., Novelli, F., Pece, S., Di Fiore, P.P., Porporato, P.E., Martini, M., Belabed, H., Nazare, M., **Haucke, V.**, Gulluni, F., Hirsch, E. (2022) Phosphoinositide conversion inactivates R-Ras and drives metastases in breast cancer. *Adv. Sci.* **9**, e2103249. doi: 10.1002/adv.202103249.

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220. Liu, G.T., Kochlamazashvili, G., Puchkov, D., Müller, R., Schultz, C., Mackintosh, A.I., Vollweiter, D., **Haucke, V.***, Soykan, T.* (2022) Endosomal phosphatidylinositol 3- phosphate levels control presynaptic vesicle cycling and neurotransmission. *EMBO J*, **41**, e109352 [*co-corresponding last authors, both from Haucke lab]
219. Malek, M., **Haucke, V. (2022)** Inositol triphosphate signaling triggers lysosome biogenesis via calcium release from endoplasmic reticulum stores. *Contact* **5**, 251525642210970. doi: 10.1177/25152564221097052.
218. Birke, R., Ast, J., Roosen, D.A., Lee, J., Roßmann, K., Huhn, C., Mathes, B., Jones, B., Lehmann, M., Levitz, J., **Haucke, V.**, Broichhagen, J. (2022) Sulfonated red and far-red rhodamines to visualize SNAP- and Halo-tagged cell surface proteins. *Org. Biomol. Chem* **20**, 5967-5980. doi: 10.1039/d1ob02216d.
217. Lopez-Hernandez, T., Takenaka, K., Mori, Y., Kongpracha, P., Nagamori, S., **Haucke, V.***, Takamori, S.* (2022) Clathrin-independent endocytic retrieval of SV proteins mediated by the clathrin adaptor AP-2 at mammalian central synapses. *eLife* **11**, e71198. doi: 10.7554/eLife.71198 [*co-corresponding last authors]
216. Malek, M., Wawrzyniak, A.M., Ebner, M., Puchkov, D., **Haucke, V. (2022)** Inositol triphosphate-triggered calcium release from the endoplasmic reticulum triggers lysosome biogenesis via TFEB/TFE3. *J. Biol. Chem.* **298**, 101740 doi:10.1016/j.jbc.2022.101740.

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215. Hostachy S., Utesch T., Franke K., Dornan G.L., Furkert D., Türkyaydin B., **Haucke V.**, Sun H., Fiedler D. (2021) Dissecting the activation of insulin degrading enzyme by inositol pyrophosphates and their bisphosphonate analogs. *Chem Sci.* **12**, 10696- 10702. doi: 10.1039/d1sc02975d.
214. Gulluni, F., Prever, L., Li, H., Krafcikova, P., Corrado, I., Lo, W.T., Margaria, J.P., Chen, A., De Santis, M.C., Cnudde, J.C., Fogerty, J., Yuan, A., Massarotti, A., Sarijalo, N. T., Vadas, O., Williams, R.L., Thelen, M., Powell, D.R., Schueler, M., Wiesener, M.S., Balla, T., Baris, H.N., Tiosano, D., McDermott Jr, B.M., Perkins, B.D., Ghigo, A., Martini, M., **Haucke, V.**, Boura, E., Merlo, G.R., Buchner, D.A., Hirsch, E. (2021) PI(3,4)P₂-mediated cytokinetic abscission prevents early senescence and cataract formation. *Science* **374** (6573):eabk0410
213. **Haucke, V. (2021)** A mechanochemical mechanism couples exocrine secretion to endocytic membrane retrieval. *Dev Cell* **56**, 1557-1559.
212. Malek, M., Wawrzyniak, A.M., Koch, P., Lüchtenborg, C., Hessenberger, M., Sachsenheimer, T., Jang, W., Brügger, B., **Haucke, V. (2021)** Inositol triphosphate- triggered calcium release blocks lipid exchange at endoplasmic reticulum-Golgi contact sites. *Nat Commun.* **12**, 2673. doi: 10.1038/s41467-021-22882-x
211. Witkowska, A., **Haucke, V. (2021)** Liquid-like protein assemblies initiate endocytosis. *Nat Cell Biol* **23**, 301-302. doi: 10.1038/s41556-021-00665-2.
210. Soykan T., **Haucke V.***, Kuijpers M.* (2021) Mechanism of synaptic protein turnover and its regulation by neuronal activity. *Curr Op Neurobiol* **69**, 76-83
209. Guerrero-Valero, M., Grandi, F., Cipriani, S., Alberizzi, V., Di Guardo, R., Chicanne, G., Sawade, L., Bianci, F., Del Carro, U., De Curtis, I., Pareyson, D., Parman, Y., Schenone, A, **Haucke, V.**, Payraastre, B., Bolino, A. (2021) Dysregulation of myelin synthesis and actomyosin function underlies aberrant myelin in CMT4B1 neuropathy. *Proc Natl Acad Sci USA* **118**, e2009469118.
208. Koch, P.A., Dornan, G.L., Hessenberger, M., **Haucke, V. (2021)** The molecular mechanisms mediating class II PI 3-kinase function in cell physiology. *FEBS J.* doi: 10.1111/febs.15692.
207. Kuijpers M, Haucke V. (2021) Neuronal autophagy controls the axonal endoplasmic reticulum to regulate neurotransmission in healthy neurons. *Autophagy* **17**, 1049-1051. doi: 10.1080/15548627.2021.1893569.

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Book Articles & Other Publications

13. **Haucke V.**, Krauß M. (2018) Identifying Small-Molecule Inhibitors of the Clathrin Terminal Domain. *Methods Mol Biol.* **1847**, 51-64
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
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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
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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]
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Invited Lectures & Conferences 2010 - 2023 (selection from > 200 lectures)

(named and plenary lectures highlighted by *)

- 03/2010 Singapore Lipid Symposium, Singapore
- 06/2010 Vesicle Transport & Cancer Symposium, Turku, Finland
- 06/2010 Taub Center, Columbia Univ., New York, USA
- 06/2010 Dept. of Pharmacology, Univ. of Washington, Seattle, USA
- 06/2010 GRC "Lysosomes & Endocytosis", Andover, NH, USA
- 07/2010 GRC "Cell Biology of the Neuron", Waterville Valley, NH, USA
- 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
- 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, Neuroregeneration and Repair
- 04/2012 Schizophrenia International Research Society, Florence, Italy
- 06/2012 International Conference "Membrane Dynamics in Physiology and Disease", Basel, Switzerland
- 11/2012 Center for Human Genetics & VIB, Leuven, Belgium
- 12/2012 JSPS Symposium on Synaptic Transmission, Kyoto, Japan
- 02/2013 Annual Meeting of the Biophysical Society, Philadelphia, USA
- 04/2013 International Society for Neurochemistry (ISN) Meeting, Cancun, Mexico
- 04/2013 Annual Meeting of the American Society for Biochemistry & Molecular Biology (ASBMB), Boston, USA
- 05/2013 University of Torino, Molecular Biotechnology Center, Torino
- 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 (now Crick Institute), London, UK
- 01/2014 9th Annaberg Conference (EMBO Workshop), Goldegg, Austria
- 03/2014 EMBO Conference "Signaling to and from Endomembranes, Konstanz, Germany
- 04/2014 Neuroscience Winter Conference, Sölden, Austria
- *04/2014 Neuroscience "Perspectives in Molecular Medicine Lecture", Goethe-Universität Frankfurt am Main, Germany

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- 05/2014 16th European Congress for Endocrinology, Wroclaw, Poland
- 06/2014 Gordon Conference "Cell Biology of the Neuron", NH, US
- 10/2014 "39th Symposium on Hormone and Cell Regulation", Mont Saint- Odile/
Strasbourg, France
- 10/2014 The EMBO Meeting, Heidelberg, Germany
- 12/2014 American Society for Cell Biology (ASCB) Annual Meeting, Philadelphia
- 01/2015 Keystone Symposia on Molecular and Cellular Biology 2015, PI 3- Kinase
Signaling Pathways in Disease, Vancouver, Canada
- *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
- *11/2015 Institut de Biologie de l'École Normale Supérieure (IBENS), Paris
- 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 Okinawa Institute of Science & Technology, Japan
- 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
- *07/2017 EMBO Practical Course "Protein-Lipid interactions", Helsinki, Finland
- 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 PI3K", Taos,
New Mexico, USA
- *02/2018 Distinguished Seminar, The Beatson Institute for Cancer Research, Glasgow, UK
- 03/2018 EMBO Conference on "Neural Development", Taipei, Taiwan
- *04/2018 EU-ITN Workshop on "Imaging and manipulating phospholipids", Berlin,
Germany (main organizer)
- 05/2018 EMBO Workshop "Lysosomes and Metabolism", Naples, Italy
- 06/2018 Gordon Conference "Cell Biology of the Neuron", Waterville Valley, 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
- *09/2018 International conference "Membranes and Modules", Berlin, Germany (co-organizer)
- 10/2018 Cold Spring Harbor meeting on "Nutrient Signaling", CSH, New York, USA 23

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- 12/2018 Symposium on Synaptic Transmission, Kyoto, Japan
- 01/2019 MRC Laboratory for Molecular Cell Biology (LMCB), London, UK
- *03/2019 "Armin Schram Lecture "of the German Neuroscience Society, Annual Meeting, Göttingen, Germany
- 04/2019 Joint meeting of the British Societies of Cell Biology (BSCB) and Developmental Biology (BSDB), Warwick, UK
- 04/2019 EMBO Symposium on "Membrane Shaping & Remodelling", Xiuning, China
- *08/2019 Plenary Lecture at the International Society for Neurochemistry (ISN)- ASN Meeting, Montreal, Canada
- 09/2019 IBRO Meeting on "Synaptic Function and Neural Circuitry", Busan, South Korea
- *10/2019 "40th Symposium on Hormone and Cell Regulation", Mont Saint- Odile/Strasbourg, France [Plenary Lecturer]
- 10/2019 Workshop on "Alzheimer's and Autophagy", New York, USA
- 04/2021 Hospital for Sickkids, Toronto, Canada (virtual)
- 05/2021 EMBO Meeting on "Cell Polarity and Membrane Dynamics (virtual)
- *06/2021 Plenary Lecture, "Club Exocytose-Endocytose", France (virtual)
- *09/2021 Italian Association for Cell Biology - Distinguished Lecture Series (virtual)
- 01/2022 Institute Pasteur, Paris, France; Hopital Necker, Paris, France
- 04/2022 Institut Gustave Roussy, Paris, France
- *05/2022 *EMBO meeting "Autophagy in Brain Health and Disease" (plenary)
- 05/2022 4th Jacques Monod Conference on 'Molecular basis for membrane remodelling and organization', Roscoff, France
- *06/2022 *The Shutter Lecture, Oregon Health and Science University (OHSU), Portland, Oregon, USA
- 06/2022 Keystone Conference "Neurodegeneration: The biological pathways driving the future of therapeutic development", Keystone, CO, USA
- 08/2022 EMBO Workshop, Birth & Fission of Cellular Compartments, Bilbao, Spain
- *09/2022 *University College London (UCL), London, UK, "Feldberg Lecture" (shifted from 2020)
- 10/2022 EMBO Workshop on Inositol Lipids, NCBS, Bangalore, India
- 01/2023 French Society for Cell Biology, Cell Biology of the Neuron, Institut Curie, Paris, France
- 03/2023 Membranes and Modules (co-organizer), Berlin, Germany
- 05/2023 GRC on Lysosomal Diseases, Castelldefels near Barcelona, Spain
- 09/2023 EMBO Meeting on "Endocytosis", San Servolo, Venice, Italy
- 09/2023 Biochemical Society Meeting on "The PI3K-Akt-mTOR-PTEN pathway", Castelldefels near Barcelona, Spain