

Hanna Hörnberg, Ph.D

Max-Delbrück-Center for Molecular Medicine (MDC)

Robert-Rössle-Strasse 10, 13092 Berlin

+49 30 9406 3583

hanna.hoernberg@mdc-berlin.de

Curriculum Vitae

Current position

Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC), Berlin, Germany
NeuroCure, Berlin, Germany

Junior group leader at MDC Buch Campus in cooperation with NeuroCure.

Previous positions

- 2019 – 2020 **Biozentrum at University of Basel, Germany**
Research Associate. Laboratory of Professor Peter Scheiffele
- 2013 – 2019 **Biozentrum at University of Basel, Switzerland**
Post-doctoral fellow. Advisor: Professor Peter Scheiffele
- 2009 - 2013 **Department of Physiology, Development, and Neuroscience, University of Cambridge, UK**
Graduate student. Advisor: Professor Christine Holt
- 2007 - 2009 **Department of Neuroscience, Uppsala University, Sweden**
Masters Student. Advisor: Professor Klas Kullander
- 2004 - 2007 **Department of Neuroscience, Uppsala University, Sweden**
Bachelor student. Advisor: Professor Thomas Helleday at Department of Genetics, Microbiology and Toxicology, Stockholm University, Sweden
- 2006 - 2007 **Department of Molecular, Cellular and Developmental Biology, University of Colorado, USA**
Research Intern during exchange year. Advisor: Professor Gretchen Stein

List of publications

1. Pohl TT and **Hörnberg H**. (2022) Neuroligins in neurodevelopmental conditions: how mouse models of de novo mutations can help us link synaptic function to social behavior. *Neuronal Signaling* 6 (2), NS20210030. DOI:10.1042/NS20210030
2. Magara F, Boury-Jamot B, **Hörnberg H**. (2021) A simple spatial-independent associative and reversal learning task in mice. *Bio-protocol* 11 (15), e4108-e4108. DOI: 10.21769/BioProtoc.4108
3. **Hörnberg H**, Perez-Garci E, Burkle L, Bornmann C, Magara F, Baudouin S, Matter A, Narco K, Pecho-Viseling E, Scheiffele P. (2020) Rescue of oxytocin response and social behavior in a rodent model of autism. *Nature* 584, 252–256. DOI: 10.1038/s41586-020-2563-7
4. Bariselli S*, **Hörnberg H***, Prévost-Solié C*, Burkle L, Scheiffele P, Bellone C. (2018) Role of VTA dopamine neurons and neuroligin 3 in sociability traits related to nonfamiliar conspecific interaction. *Nature Communication* 9(1):3173. DOI: 10.1038/s41467-018-05382-3
5. **Hörnberg H***, Cioni JM*, Harris WA, Holt CE. (2016) Hermes regulates axon sorting in the optic tract by post-transcriptional regulation of neuropilin 1. *J Neurosci*. 36(50):12697-12706. DOI: 10.1523/JNEUROSCI.2400-16.2016
6. **Hörnberg H**, Wollerton-van Horck F, Maurus D, Zwart M, Svoboda H, Harris W and Holt C. (2013) RNA-binding protein Hermes/RBPMS inversely affects synapse density and axon arbor formation in retinal ganglion cells in vivo. *J Neurosci*. 33(25):10284-95. DOI:10.1523/JNEUROSCI.5858-12.2013
7. **Hörnberg H** and Holt C. (2013) RNA-binding proteins and translational regulation in axons and growth cones. Review; *Frontiers in Neuroscience*. 7:81. DOI:10.3389/fnins.2013.00081
8. Gu C, Stein GH, Pan N, Goebbels S, **Hörnberg H**, Herrera P, White P, Kaestner KH, Sussel L, and Lee JE. (2010) Pancreatic beta cells require NeuroD to achieve and maintain functional maturity. *Cell Metabolism*. 11(4):298-31. DOI:10.1016/j.cmet.2010.03.006

*Authors contributed equally to the work