Eva Neuhaus

Charité - Universitätsmedizin Berlin
Neuroscience Research Center (NWFZ)
Charitéplatz 1 | D-10117 Berlin
Phone: +49 (0)30 450-539761
E-mail: eva.neuhaus@charite.de

Curriculum vitae

since 2009	Professor (W2), Cellular and Molecular Neurosciences, Charité
2001 – 2009	Postdoctoral fellow (Advisor: Prof. H. Hatt), Ruhr-University Bochum
2000 – 2001	Postdoctoral fellow (Advisor: PD Dr. Thierry Soldati), Max Planck Institute for Medical Research, Heidelberg
1996 – 2000	PhD thesis, Department of Molecular Cell Research, Max Planck Institute for Medical Research, Heidelberg
1994 – 2000	Studies in Medicine, Universities of Greifswald and Heidelberg
1989 – 1994	Studies in Chemistry, Ruhr-University Bochum

Research fields

Our group is active in the field of cellular and molecular neurobiology with the following major areas:

- Activation, signaling mechanisms, and trafficking of G-protein coupled receptors
- Cellular and molecular mechanisms of odorant detection in olfactory sensory neurons of vertebrates and invertebrates
- Stimulus-dependent plasticity of the peripheral olfactory system
- Role of G-protein coupled receptors in neurogenesis

Activities in the scientific community, honors, awards

2004	Award for best presentation, “NeuroVisions 2004”, North Rhine-Westphalian Academy of Sciences and Arts (Nordrhein-Westfälische Akademie der Wissenschaften)
2005	“Best Patent” Award (Erfinderwettbewerb), Ruhr-University Bochum
2007	Young Academy, North Rhine-Westphalian Academy of Sciences and Arts, and the Stiftung Mercator

Selected publications

Spehr, J, Gelis, L, Osterloh, M, Oberland, S, Hatt, H, Spehr, M and Neuhaus, EM. G Protein-coupled Receptor Signaling via Src Kinase Induces Endogenous Human Transient Receptor Potential Vanilloid Type 6 (TRPV6) Channel Activation. J Biol Chem. 2011; 286, 13184-92.

Deng, Y, Zhang, W, Farhat, K, Oberland, S, Gisselmann, G and Neuhaus, EM. The Stimulatory Galpha(s) Protein Is Involved in Olfactory Signal Transduction in Drosophila. PLoS One. 2011; 6, e18605.

Rasche, S, Toetter, B, Adler, J, Tschapek, A, Doerner, JF, Kurtenbach, S, Hatt, H, Meyer, H, Warscheid, B and Neuhaus, EM. Tmem16b is specifically expressed in the cilia of olfactory sensory neurons. Chem Senses. 2010; 35, 239-45.

Neuhaus, EM, Zhang, W, Gelis, L, Deng, Y, Noldus, J and Hatt, H. Activation of an olfactory receptor inhibits proliferation of prostate cancer cells. J Biol Chem. 2009; 284, 16218-25.

Dooley, R, Baumgart, S, Rasche, S, Hatt, H and Neuhaus, EM. Olfactory receptor signaling is regulated by the post-synaptic density 95, Drosophila discs large, zona-occludens 1 (PDZ) scaffold multi-PDZ domain protein 1. FEBS J. 2009; 276, 7279-90.

Barbour, J*, Neuhaus, EM*, Piechura, H, Stoepel, N, Mashukova, A, Brunert, D, Sitek, B, Stuhler, K, Meyer, HE, Hatt, H and Warscheid, B. New insight into stimulus-induced plasticity of the olfactory epithelium in Mus musculus by quantitative proteomics. J Proteome Res. 2008; 7, 1594-605. | *equal contribution

Mashukova, A, Spehr, M, Hatt, H and Neuhaus, EM. Beta-arrestin2-mediated internalization of mammalian odorant receptors. J Neurosci. 2006; 26, 9902-12.

Neuhaus, EM, Gisselmann, G, Zhang, W, Dooley, R, Stortkuhl, K and Hatt, H. Odorant receptor heterodimerization in the olfactory system of Drosophila melanogaster. Nat Neurosci. 2005; 8, 15-7.

Neuhaus, EM, Almers, W and Soldati, T. Morphology and dynamics of the endocytic pathway in Dictyostelium discoideum. Mol Biol Cell. 2002; 13, 1390-407.

Neuhaus, EM and Soldati, T. A myosin I is involved in membrane recycling from early endosomes. J Cell Biol. 2000; 150, 1013-26.