

CV

University training and degree

Neurosciences (2004-2005), University of Oxford, M.Sc., thesis supervisors: Dr. A. Russ, Dr. N. Emptage
Human Medicine, (1997-2004), University of Würzburg

Advanced academic qualifications

2014 Habilitation: Physiology, University of Würzburg, mentor: Prof. M. Heckmann
2009 Doctorate (D.Phil.): University of Oxford, supervisor: Dr. A. Russ
2006 Doctorate (Dr. med.): University of Würzburg, supervisor: Prof. E. Asan

Postgraduate professional career

since 2016 Tenured Professor (W3), Rudolf Schönheimer Institute of Biochemistry, Leipzig University
2016 Heisenberg Professor, Institute of Physiology and Comprehensive Heart Failure Center, University of Würzburg
2009-2016 Akademischer Rat / Oberrat / Group Leader at the Department of Physiology, University of Würzburg

Other

2016 Heisenberg Professorship
2015-2022 Spokesperson, DFG-Forschergruppe 2149 'Adhesion GPCR Signaling'
2006 Wolfgang Bargmann Prize, German Anatomical Society
2006 Thesis award, Medical Faculty, University of Würzburg
2004-2009 Wellcome Trust Doctoral Programme in Neuroscience, University of Oxford

Selected publications

Paul MM*, Dannhäuser S*, Morris L*, Mrestani A*, Hübsch M, Gehring J, Hatzopoulos GN, Pauli M, Auger GM, Bronschein G, Scholz N, Ljaschenko D, Müller M, Sauer M, Schmidt H, Kittel RJ, DiAntonio A, Vakonakis I, Heckmann M[#], Langenhan T[#]. 2022. The human cognition-enhancing CORD7 mutation increases active zone number and synaptic release. **Brain** doi:10.1093/brain/awac011.

Götze KJ*, Mrestani A*, Beckmann P, Krohn K, LeDuc D, Velluva A, Böhme MA, Heckmann M, Abou Jamra R, Lemke JR, Bläker H, Scholz N, Ljaschenko D[#], Langenhan T[#]. 2022. Improving one-step scarless genome editing in *Drosophila melanogaster* by combining ovo^D co-CRISPR selection with sgRNA target site masking. **Biol Methods Protoc** 12:bpac003

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- Mathiasen S, Palmisano T, Perry NA, Stoveken HM, Vizurraga A, McEwen DP, Okashah N, Langenhan T, Inoue A, Lambert NA, Tall GG, Javitch JA. 2020. G12/13 is activated by acute tethered agonist exposure in the adhesion GPCR ADGRL3. **Nat Chem Biol** 16:1343-1350
- Scholz N, Langenhan T#, Schöneberg T#. 2019 Revisiting the classification of adhesion GPCRs. **Ann N Y Acad Sci** 1456:80–95
- Scholz N*, Ehmman N*, Sachidanandan D, Imig C, Cooper BH, Jahn O, Reim K, Brose N, Meyer J, Lamberty M, Altrichter S, Bormann A, Hallermann S, Pauli M, Heckmann M, Stigloher C, Langenhan T#, Kittel RJ#. 2019 Complexin cooperates with Bruchpilot to tether synaptic vesicles to the active zone cytomatrix. **J Cell Biol** 218:1011-1026
- Blanco Redondo B, Langenhan T. 2018 Parallel Genomic Engineering of Two Drosophila Genes Using Orthogonal attB/attP Sites. **Genes, Genomes, Genetics (G3)** 8:3109–3118
- Scholz N*, Guan C*, Nieberler M*, Grotemeyer A*, Maiellaro I, Gao S, Beck S, Pawlak M, Sauer M, Asan E, Rothemund S, Winkler J, Prömel S, Nagel G, Langenhan T#, Kittel RJ#. 2017 Mechano-dependent signaling by Latrophilin/CIRL quenches cAMP in proprioceptive neurons. **eLife** 6:e28360
- Langenhan T#, Piao X#, Monk KR#. 2016 Adhesion G protein-coupled receptors in nervous system development and disease. **Nat Rev Neurosci** 17:550-561
- Scholz N*, Gehring J*, Guan C*, Ljaschenko D, Fischer R, Lakshmanan V, Kittel RJ#, Langenhan T#. 2015 The Adhesion GPCR Latrophilin/CIRL shapes mechanosensation. **Cell Rep** 11:866-74
- Prömel S, Frickenhaus M, Hughes S, Mestek L, Staunton D, Woollard A, Vakonakis I, Schöneberg T, Schnabel R, Russ AP, Langenhan T. 2012 The GPS Motif Is a Molecular Switch for Bimodal Activities of Adhesion Class G Protein-Coupled Receptors. **Cell Rep** 2:321-31
- Prömel S#, Waller-Evans H, Dixon J, Zahn D, Colledge WH, Doran J, Carlton MBL, Grosse J, Schöneberg T, Russ AP, Langenhan T#. 2012 Characterization and functional study of a cluster of four highly conserved orphan adhesion-GPCR in mouse. **Dev Dyn** 241:1591-602
- Langenhan T, Prömel S, Mestek L, Esmaili B, Waller-Evans H, Hennig C, Kohara Y, Avery L, Vakonakis I, Schnabel R, Russ AP. 2009 Latrophilin signaling links anterior-posterior tissue polarity and oriented cell divisions in the *C. elegans* embryo. **Dev Cell** 17:494-504
- Adhesion G Protein-coupled Receptors – Molecular, Physiological and Pharmacological Principles in Health and Disease. (2016) Ed. T. Langenhan and T. Schöneberg. Springer Nature.