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Senior Staff Scientist

SCIENTIFIC VITA

1989 - 1994	Study of Biochemistry (University of Frankfurt am Main, Germany)
1994 - 1998	PhD in Biochemistry (University of Heidelberg, Germany)
1998 - 2000	PostDoc at Memorial Sloan Kettering Cancer Center, New York, U.S.A.
2000 - 2002	PostDoc at Institute for Biochemstry I, University of Heidelberg
2002 - now	Senior Staff Scientist at the University Heidelberg Biochemistry Center, Heidelberg, Germany

FIELDS OF INTEREST

Molecular biology, cell biology of lipid transport and sorting, quantitative lipid analysis of biological membranes, mass spectrometry of lipids, COPI vesicle assembly and transport, cargo sorting

CURRENTLY FUNDED PROJECTS

DFG: SFB 638 ‘Dynamics of macromolecular complexes in biosynthetic transport (A10); TR 13 ‘Membrane microdomains and their role in human disease’ (C3); DFG-SPP1175 ‘Dynamics of cellular membranes and their exploitation by viruses’

PUBLICATIONS (10 selected publications since 2000):

Brügger, B., B. Glass, P. Haberkant, I. Leibrecht, F.T. Wieland and H.-G. Kräusslich. 2006. The HIV lipidome: A raft with an unusual composition. *Proc. Natl. Acad. Sci. USA* **103**: In press.

Saher, G., **B. Brügger**, C. Lappe-Siefke, W. Mobius, R. Tozawa, M.C. Wehr, F. Wieland, S. Ishibashi, and K.A. Nave. 2005. High cholesterol level is essential for myelin membrane growth. *Nat. Neurosci.* **8**: 468-475.

Brügger, **B.,** C. Graham, I. Leibrecht, E. Mombelli, A. Jen, F. Wieland, and R. Morris. 2004. The membrane domains occupied by glycosylphosphatidylinositol-anchored prion protein and Thy-1 differ in lipid composition. *J. Biol. Chem.* **279**: 7530-7536.

Eroglu, C., **B. Brügger**, F.T. Wieland, and I. Sinning. 2003. Glutamate binding affinity of *Drosophila* metabotropic glutamate receptor is modulated by association with lipid rafts. *Proc. Natl. Acad. Sci. USA* **100**: 10219-10224.

Jenne, N., K. Frey, **B. Brügger**, and F. Wieland. 2002. Oligomeric state and stoichiometry of p24 proteins in the early secretory pathway. *J. Biol. Chem.* **277**: 46504-46511.

Paumet, F., **B. Brügger**, F. Parlati, J. A. McNew, T. Söllner, and J. E. Rothman. 2001. A t-SNARE involved in endocytosis must be activated for fusion. *J. Cell Biol.* **155**: 961-968.

Gkantiragas, I., **B. Brügger,** E. Stüven, D. Kaloyanova, X.Y. Li, K. Löhr, F. Lottspeich, F.T. Wieland, and J.B. Helms. 2001. Sphingomyelin-enriched microdomains at the Golgi complex. *Mol. Biol. Cell.* **12**: 1819-1833.

Brügger, B., W. Nickel, T. Weber, F. Parlati, J. A. McNew, J. E. Rothman, and T. H. Söllner. 2000. Putative fusogenic activity of NSF is restricted to a lipid mixture whose coalescence is also triggered by other factors. *EMBO J*. **19**: 1272-1278.

Volchuk, A., M. Amherdt, M. Ravazzola, **B. Brügger**, V. M. Rivera, T. Clackson, A. Perrelet, T. H. Söllner, J. E. Rothman, and L. Orci. 2000. Mega-vesicles implicated in the rapid transport of intra-cisternal aggregates across the Golgi stack. *Cell* **102**: 335-348.

Brügger, **B**. R. Sandhoff, W. Nickel, J. B. Helms, K. Gorgas, W. Lehmann, and F. T. Wieland. 2000. Segregation from COPI-coated vesicles of sphingomyelin and cholesterol. *J. Cell. Biol.* **151**: 507-518.