Prof. Dr. Thomas Söllner

Biochemistry Center
University Heidelberg
D-69120 Heidelberg, Germany

Phone: +49-(0)6221-54 5342
Fax: +49-(0)6221-54 5341
E-mail: thomas.soellner@bzh.uni-heidelberg.de

29/05/1960, Munich

Professor

SCIENTIFIC VITA

1980 - 1982	Study of Biology at University of Regensburg
1982 - 1986	Study of Biology at Ludwig-Maximilians University Munich
1987 - 1991	Ph.D. thesis work at Institute for Physiological Chemistry, Biochemistry and Cell Biology, Ludwig-Maximilians University Munich (Ph. D. August 1991)
1991 - 1993	Research Fellow, Cellular Biochemistry and Biophysics Program, Sloan-Kettering Institute, New York, USA
1994 - 1997	Assistant Laboratory Member, Cellular Biochemistry and Biophysics Program, Sloan-Kettering Institute, New York, USA
1998 - 2003	Assistant Member (Assistant Professor), Cellular Biochemistry and Biophysics Program, Sloan-Kettering Institute, New York, USA
2003 - 2004	Assistant Member (Assistant Professor), Cell Biology Program, Sloan-Kettering Institute, New York, USA
2004 - 2005	Associate Member (Associate Professor), Cell Biology Program, Sloan-Kettering Institute, New York, USA
2005 - now	Full Professor, Biochemistry Center of University of Heidelberg

COORDINATING FUNCTIONS

2000 - 2003	Graduate Student Admission Committee, Neuroscience Program at Weill Medical College, Cornell University, New York, USA
2004 - 2005	Course Co-Director in Cell Biology & Genetics at Weil Medical College, Cornell University, New York, USA
2003 - 2005	Member of Cryo Electron Microscopy Operation Committee at the New York Structural Biology Center, USA
2001 - now	Member of Faculty 1000

FIELDS OF INTEREST

Membrane trafficking, vesicle budding and fusion, regulated exocytosis, neurotransmitter release

CURRENTLY FUNDED PROJECTS

Graduierten Kolleg GRK 1188, NIH grant R01 transfer pending

PUBLICATIONS (10 selected publications since 2000):

Cosson, P., Ravazzola, M., Varlamov, O., **Söllner, T.H.,** Di Liberto, M., Volchuk, A., Rothman, J.E., Orci, L. 2005. Dynamic transport of SNARE proteins in the Golgi apparatus. *Proc. Natl. Acad. Sci. USA* **102**: 14647-52.

Cheng, Y. Sequeira, S.M., Malinina, L., Tereshko, V., **Söllner, T.H.,** and Patel, D.J. 2004. Crystallographic identification of Ca^{2+} and Sr^{2+} coordination sites in synaptotagmin I C_2B domain. *Protein Science* **13**: 2665-2672.

Varlamov, O., Volchuk, A., Rahimian, V., Doege, C.A. Paumet, F., Eng, W.S, Arango, N.C., Parlati, F., Ravazzola, M., Orci, L, **Söllner, T.H.,** and Rothman, J.E. 2004. i-SNAREs, *inhibitory* SNAREs that fine-tune the specificity of membrane fusion. *J. Cell Biol*. **164**: 79-88.

Burri, L., Varlamov, O., Doege, C., Hofman, K., Beilharz, T., Rothman, J.E., **Söllner, T.H.,** and Lithgow, T. 2003. A SNARE required for retrograde transport to the endoplasmic reticulum. *Proc. Natl. Acad. Sci. USA* **100***:* 9873-9877.

Hu, C., Ahmed, M., Melia, T.J., **Söllner, T.H.,** Mayer, T., and Rothman, J.E. 2003. Fusion of cells by flipped SNAREs. *Science* **300**: 1745-1749.

Mahal, L.K., Sequeira, S.M., Gureasko, J., and **Söllner, T.H.** 2002. Calcium-independent stimulation of membrane fusion and SNAREpin formation by synaptotagmin I. *J.Cell Biol* **158**, 273-282.

Melia, T.J., Weber, T., McNew, J.A., Fisher, L.E., Johnston, R.J., Parlati, F., Mahal, L.K. **Söllner, T.H.,** and Rothman, J.E. 2002. Regulation of membrane fusion by the membrane-proximal coil of the t-SNARE during zippering of SNAREpins. *J. Cell Biol*. **158**: 929-940.

Fukuda, R., McNew, J.A., Weber, T., Parlati, F., Engel, T., Nickel, W., Rothman, J.E., and **Söllner, T.H.** 2000. Functional architecture of an intracellular membrane t-SNARE. *Nature* **407**: 198-202.

Parlati, F., McNew, J.E., Fukuda, R., Miller, R., **Söllner, T.H**., and Rothman, J.E. 2000. Topological restriction of SNARE-dependent membrane fusion. *Nature* **407**: 194-198.

McNew, J.A., Parlati, F., Fukuda, R., Johnston, R.J., Paz, K., Paumet, F., **Söllner, T.H**., and Rothman, J.E. 2000. Compartmental specificity of cellular membrane fusion encoded in SNARE proteins. *Nature* **407**: 153-159.