PEGGY STOLT-BERGNER, Ph.D.

Campus Science Support Facilities GmbH
Dr. Bohr-gasse 3, 1030 Vienna, Austria
+43 1 796 2324 7070 / 0664 8084 77070
peggy.stolt@csf.ac.at
www.csf.ac.at

RESEARCH POSITIONS

2014-ongoing	**Authorized Representative of CSF**	**Campus Science Support Facilities** Vienna, Austria
2011-ongoing	**Protein Technologies Facility** Head of Facility	**Campus Science Support Facilities** Vienna, Austria

- Establishment and continuing development of the CSF-ProTech facility and CSF-CRISPR Lab
- Coordinate research strategies, hiring of personnel, budget, and internal and external scientific reporting

2006-2011	**IMP Fellow** Principal investigator	**Research Institute of Molecular Pathology** Vienna, Austria

- Applied for and obtained a total of 1.7 mio€ in external funding
- Supervised 8 employees over the course of four years, including 3 Masters and 2 PhD students
- Initiated and supervised several research projects in the field of membrane protein structural biology

2004 – 2006	**Postdoctoral Fellow** with Dr. Hartmut Michel	**Max Planck Institute of Biophysics** Frankfurt, Germany

- Member of a structural genomics team screening over 200 prokaryotic and eukaryotic membrane proteins for expression, purification, and crystallization using recombinant expression in *E. coli* and *L. latis*, or *P. pastoris*.

1999 – 2004	**Ph.D. Student** with Dr. Stephen C. Blacklow	**Harvard Medical School** Boston, MA, USA

- Produced, purified, and crystallized the PTB domain of the Disabled-1 protein bound to peptide and lipid ligands.
- Determination of two crystal structures of domain-ligand complexes to 1.5 and 1.9 angstrom resolution using MAD and molecular replacement.
- Performed site-directed mutagenesis to investigate binding and cooperativity of the two ligand binding sites using isothermal titration calorimetry and nuclear magnetic resonance.

EDUCATION

1999 – 2004	**Harvard Medical School** Boston, MA, USA	**Ph.D., Biochemistry and Molecular Pharmacology** Biological and Biomedical Sciences Program
1995 – 1999	**Dartmouth College** Hanover, NH, USA	**B.A., Biochemistry and Molecular Biology** with High Honors, Minor in Chemistry, *cum Laude*

EXTERNAL FUNDING

Jan. 2014- Dec. 2016 **Laura Bassi Centre of Expertise grant, FFG**
Partner in the Laura Bassi Center for Optimized Structural Studies

Jan. 2015 – Dec. 2017 **BRIDGE Early Phase grant, FFG**
Optimization and Application of Genome Engineering based on the CRISPR/Cas9 System

COURSES AND TRAINING

Nov. 2007 "Lab Management: The Art of Leadership", EMBO workshop
Nov. 2010 "Tips and Tools for Scientist-Managers", Metis Leadership
March 2011 Leadership and team-building workshop, C/O/N/E/C/T/A Management Consulting
Sept. 2012 Microscale Thermophoresis training, Nanotemper Technologies
Nov. 2014 "Female Leaders in Science", EMBO workshop

PUBLICATIONS

*[#]Co-first author, *corresponding author*

Mlynek G., Lehner A., Neuhold J., Leeb S., Kostan J., Charnagalov A., **Stolt-Bergner P.**, Djinovic-Carugo K., Pinotsis N. (2014) The Center for Optimized Structural Studies (COSS) platform for automation in cloning, expression, and purification of single proteins and protein-protein complexes, *Amino Acids* **46:**1565-82

Zimniak T., Fitz V., Zhou H., Lampert F., Opravil S., Mechtler K., **Stolt-Bergner P.**, Westermann S. (2012) Spatiotemporal regulation of Ipl1/Aurora activity by direct Cdk1 phosphorylation, *Curr Biol* **22:**787-93

Malle E.[#], Zhou H.[#], Neuhold J., Spitzenberger B., Klepsch F., Pollak T., Bergner O., Ecker G.F., **Stolt-Bergner P. C.*** (2011) Random mutagenesis of the prokaryotic peptide transporter YdgR identifies potential periplasmic gating residues, *J Biol Chem* **286:**23121-31

Kley J.[#], Schmidt B.[#], Boyanov B., **Stolt-Bergner P. C.**, Kirk R., Ehrmann M., Knopf R. R., Naveh L., Adam Z., Clausen T. (2011) Structural adaptation of the plant protease Deg1 to repair photosystem II during light exposure *Nat Struct Mol Biol*, **18:**728-31

El-Kasaby A., Just H., Malle E., **Stolt-Bergner P.C.**, Sitte H.H., Freissmuth M., Kudlacek O. (2010) Mutations in the carboxyl-terminal SEC24 binding motif of the serotonin transporter impair folding of the transporter *J Biol Chem,* 285:39201-10

Surade S.[#], Klein M.[#], **Stolt-Bergner P. C.[#]**, Muenke C., Roy A., Michel H. (2006) Comparative Analysis and "Expression Space" Coverage of Prokaryotic Membrane Proteins for Structural Genomics *Prot Sci*, 15:2178-89 *(#Co-first author)*

Beffert U., Durudas A., Weeber E. J., **Stolt P. C.**, Giehl M., Sweatt J. D., Hammer R. E., Herz J. (2006) Functional dissection of Reelin signaling by site-directed disruption of Disabled-1 adaptor binding to apolipoprotein E receptor 2: distinct roles in development and synaptic plasticity *J Neurosci* 26:2041-52

Stolt P. C.*, Chen Y., Liu P., Bock H. H.*, Blacklow S. C., Herz J. (2005) Phosphoinositide Binding by the Disabled-1 PTB Domain is Necessary for Membrane Localization and Reelin Signal Transduction *J Biol Chem*, 280:9671-77

Stolt P. C., Vardar D., Blacklow S. C. (2004) The Dual-Function Disabled-1 PTB Domain Exhibits Site-Independence in Binding Phosphoinositide and Peptide Ligands *Biochemistry*, 43:10979-87

Stolt P. C.[#], Jeon H.[#], Song H. K.,Herz J., Eck M. J., Blacklow S. C. (2003) Origins of Peptide Selectivity and Phosphoinositide Binding Revealed by Crystal Structures of Disabled-1 Complexes *Structure*, 11:569-79