

PEGGY STOLT-BERGNER, Ph.D.

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RESEARCH POSITIONS

2014-ongoing **VBCF Deputy Director** **Vienna Biocenter Core Facilities**
Vienna, Austria

2011-ongoing **Protein Technologies Facility** **Vienna Biocenter Core Facilities**
Head of Facility Vienna, Austria

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

2006-2011 **IMP Fellow** **Research Institute of Molecular Pathology**
Principal investigator 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** **Max Planck Institute of Biophysics**
with Dr. Hartmut Michel 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** **Harvard Medical School**
with Dr. Stephen C. Blacklow 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** **Ph.D., Biochemistry and Molecular Pharmacology**
Boston, MA, USA Biological and Biomedical Sciences Program

1995 – 1999 **Dartmouth College** **B.A., Biochemistry and Molecular Biology**
Hanover, NH, USA 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

SELECTED PUBLICATIONS

[#]Co-first author, ^{*}corresponding author

Koehler C, Sauter PF, Wawryszyn M, Girona GE, Gupta K, Landry JJ, Fritz MH, Radic K, Hoffmann JE, Chen ZA, Zou J, Tan PS, Galik B, Junntila S, **Stolt-Bergner P**, Pruneri G, Gyenesi A, Schultz C, Biskup MB, Besir H, Benes V, Rappsilber J, Jechlinger M, Korbel JO, Berger I, Braese S, Lemke EA (2016) Genetic Code Expansion for multiprotein complex engineering, *Nature Methods* 13:997-1000

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

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