

**Professor Dr. Irmgard
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01/08/1960, Höchstädt

Professor

SCIENTIFIC VITA

1979 - 1984 LMU-Munich, Food Chemistry
1989 PhD in Biochemistry, LMU-Munich
1989 - 1991 PostDoc, Dept. of Molecular Membrane Biology,
Max-Planck-Institute for Biophysics, Frankfurt
1991 - 1993 Scientist, Biomedical Centre, Uppsala University
1994 - 1999 Group Leader, Structural Biology Programme, EMBL, Heidelberg
2000 - now Full Professor, BZH, Heidelberg
2006 - now Director of the BZH

COORDINATING FUNCTIONS

1994 Organizer of EMBO practical courses "Current methods in membrane protein research"
1996 Organizer of EMBO practical courses "Current methods in membrane protein research"
1998 Organizer of EMBO practical courses "Current methods in membrane protein research"
2000 Organizer of EMBO practical courses "Current methods in membrane protein research"
1996 – 2001 Member of the "Life Science" beam time committee at the ESRF
1999 - 2001 Chair person of the "Life Science" beam time committee at the ESRF
2001 – now Editor of FEBS letters
2006 – now Member steering committee EU network " "

FIELDS OF INTEREST

Molecular understanding of protein transport and membrane insertion, structure function analysis of protein/RNA complexes and GTPases of the SRP system, membrane associated GTPases and membrane transporters, GPCRs, X-ray structure analysis

CURRENTLY FUNDED PROJECTS

SFB 638, project A3, DFG projects on structure function relationships DFW-TE, DFG-WI , DFG-Graduate Programme, EU network , German Israeli Foundation, Landesstiftung BW, FCI, Boehringer-Ingelheim Foundation

Currently supervision of 1 diploma thesis, 10 doctoral thesis, 1 habilitation thesis.

PUBLICATIONS (10 selected publications since 2000)

Tews, I., Findeisen, F., **Sinning, I.**, Schultz A., Schultz, J.E. & Linder, J.U. 2005. The structure of a pH sensing mycobacterial adenylcyclase holoenzyme, *Science* **308**: 1020-23.

Luirink, J. & **Sinning, I.** 2004. SRP-mediated protein targeting: structure and function revisited, *BBA Mol. Cell Res.* **1694**: 17-35.

Wild, K., Halic, M., **Sinning, I.** & Beckmann, R. 2004. Co-translational protein targeting: SRP meets the ribosome, *Nat. Struct. Mol. Biol.* **11**: 1049-1053.

Dobberstein, B. & **Sinning, I.** 2004. Structural biology: Surprising news from the PCC. *Science* **303**: 320-322.

Rosendal, K.R., Wild, K., Montoya, G. & **Sinning, I.** 2003. Crystal structure of the complete core of archaeal signal recognition particle and implications for inter-domain communication, *Proc. Natl. Acad. Sci. USA* **100**: 14701-14706.

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

Eroglu, C., Cronet, P., Panneels, V., Beaufils, P. & **Sinning, I.** 2002. Functional reconstitution of purified mGluR overexpressed in the eye of transgenic Drosophila melanogaster, *EMBO Rep.* **3**: 491-496.

Pool, M.R., Stumm, J., Fulga, T.A., **Sinning, I.** & Dobberstein, B. 2002. Distinct modes of Signal Recognition Particle interaction with the Ribosome, *Science* **297**: 1345-1348

Wild, K., **Sinning, I.** & Cusack , S. 2001. Crystal structure of an early protein-RNA assembly complex of human signal recognition particle. *Science* **294**: 598-601.

de Leeuw, E., te Kaat, K., Moser, C., Menestrina, G., Demel, R., de Kruijff, B., Luirink, J. & **Sinning, I.** 2000. Anionic phospholipids are involved in membrane association of the Signal Recognition Particle receptor FtsY and stimulate its GTPase activity, *EMBO J.* **19**: 531-541.