

Jochen Reinstein (Priv. Doz., Dr. rer. nat.)

Academic Education and Occupancies

Feb. 2005	<i>venia legendi</i> in "Biochemistry/Biophysics", University Heidelberg, Faculty of Biological Sciences.
since Dec. 2003	research group leader, Max-Planck-Institute for Medical Research, Department of Biomolecular Mechanisms Heidelberg, Germany.
2000	Habilitation with <i>venia legendi</i> in "Physiological Chemistry", University Bochum, Medical Faculty.
1994-2003	group leader, Max-Planck-Institut für molekulare Physiologie, Dortmund Germany, Dept. of Physical Biochemistry.
1992-1994	group leader. Max-Planck-Institut fuer Medizinische Forschung, Heidelberg Germany, Dept. of Biophysics.
1990-1992	Postdoctoral fellow, Brandeis University (Waltham MA), Department of Biochemistry with William P. Jencks.
1986-1990	Dissertation (Ph. D.) Max-Planck-Institut für medizinische Forschung, Heidelberg Germany, Dept. of Biophysics.
1980 – 1986	Study of Biology (Diploma) at the Ruprecht-Karls-University, Heidelberg.

Research Interests / techniques applied

Molecular Chaperones, Protein Folding, ATP driven motors and switches, enzyme mechanism, transient kinetics, spectroscopy, protein chemistry and analytics, biophysics and biochemistry, structural biology, complex systems.

Selected Publications

- Werbeck, N.D., Schlee, S., and Reinstein, J. (2008). Coupling and dynamics of subunits in the hexameric AAA+ chaperone ClpB. *J. Mol. Biol.* 378, 178-190.
- Lorenz, T. and Reinstein, J. (2008). The influence of proline isomerization and off-pathway intermediates on the folding mechanism of eukaryotic UMP/CMP Kinase. *J. Mol. Biol.* 381, 443-455.
- Leskovar, A., Wegele, H., Werbeck, N.D., Buchner, J., and Reinstein, J. (2008). The ATPase cycle of the mitochondrial Hsp90 analog Trap1. *J. Biol. Chem.* 283, 11677-11688.
- S. Schlee, P. Beinker, A. Akhrymuk, and J. Reinstein. A chaperone network for the resolubilization of protein aggregates: direct interaction of ClpB and DnaK. *J. Mol. Biol.* 336 (1):275-285, 2004.
- Y. Groemping and J. Reinstein. Folding properties of the nucleotide exchange factor GrpE from *Thermus thermophilus*: GrpE is a thermosensor that mediates heat shock response. *J. Mol. Biol.* 314 (1):167-178, 2001.

Current Teaching

University Heidelberg, Lectures/Seminars and practical courses in enzyme kinetics/protein folding and Biophysics/Biochemistry for students of Biosciences (Biotechnology, Molecular Cell Biology) and Physics.

EMBO course on transient kinetics (biannual since 1997)