

Curriculum Vitae

Jan Stöhr, Ph. D.
Postdoctoral Scholar
University of California, San Francisco
Institute for Neurodegenerative Diseases
513 Parnassus Avenue, Room HSE-774
San Francisco, CA 94143-0518
Phone: (415) 502-1949
Fax: (415) 476-8386
Email: jstoehr@ind.ucsf.edu

Education

- | | |
|--------------|---|
| 2008-present | Postdoctoral Scholar at the Institute for Neurodegenerative Diseases, UCSF |
| 2003-2007 | Ph. D. thesis at the Institute for Physical Biology
Heinrich-Heine-Universität (HHU), Düsseldorf, Germany
Thesis-Title: Biophysical characterization of the preamyloid- and amyloid state of recombinant and natural prion proteins |
| 2002-2003 | Heinrich-Heine -Universität, Düsseldorf, Degree: Diplom Biologe (equiv. to MS), Diploma thesis: "On the fibril formation of recombinant prion proteins" ("Möglichkeit der Fibrillenbildung von rekombinanten Prion-Proteinen") |
| 1998-2002 | Undergraduate studies in Biology, Heinrich-Heine –Universität, Düsseldorf |
| 1997-1998 | Undergraduate studies in Biology, Technical University Darmstadt, Germany |

Employment

- | | |
|--------------|---|
| 2008-present | Postdoctoral Scholar at the Institute for Neurodegenerative Diseases, UCSF |
| 2007-2008 | Postdoctoral Scholar , Institute for Physical Biology, HHU-Düsseldorf |
| 2003-2007 | Ph.D. Student , Institute for Physical Biology, HHU-Düsseldorf |
| 2002-2003 | Research- and Diploma-Student , Institute for Physical Biology, HHU-Düsseldorf |

- 2000-2002 Institute for Zoology, Cell Biology and Parasites, HHU-Düsseldorf
Teaching Assistant (Course: "Biology for medical students")
- 2000-2001 Institute for Biochemical Botany, HHU Düsseldorf,
Teaching Assistant (Course: "Biochemistry of plants")

Fellowships

- 2008-2009 Postdoctoral fellowship of the German Research Foundation
(Deutsche Forschungsgemeinschaft, DFG)
- 2004-2005 Fellowship of the German Research Foundation- (Deutsche
Forschungsgemeinschaft, DFG) financed graduate training program
(Graduiertenkolleg)GRK-320: "Pathological processes of the nervous
system"

Presentation

Oral presentation

- 2004, February 4th Annual meeting of the graduate training program, GRK-320:
"Pathological processes of the nervous system", Wallberberg,
Germany: "Fibril formation of natural and recombinant prion-proteins"

Poster-presentations

- 2006, November International Conference of the European Network of Excellence
NeuroPrion: Prion 2006, Turino, Italy:"Spontaneous and seeded fibril
formation of recombinant and posttranslationally modified Prion
Proteins" **Jan Stöhr**, Nicole Weinmann, Holger Wille, Stanley B.
Prusiner & Detlev Riesner
- International Conference of the European Network of Excellence
NeuroPrion: Prion 2006, Turino, Italy:"Accelerated aggregation and
fibrillization of the prion protein in presence of glycogen" Dumpitak, C.,
Panza, G., **Stöhr, J.**, Birkmann, E. and Riesner, D.
- 2006, June 6th National Meeting of the german "TSE Research Platform",
Greifswald, Germany:"Aggregation and fibrillization of PrP in the
presence of polysaccharides". Panza, G., Dumpitak, C., **Stöhr, J.**,
Birkmann, E. and Riesner, D

- 2005, November International Conference of the European Network of Excellence NeuroPrion: Prion 2005, Duesseldorf, Germany: "In vitro studies on the influence of polysaccharides and ageing-related protein modifications on aggregation and fibrillization of PrP", G. Panza, C. Dumpitak, **J. Stöhr**, E. Birkmann and D. Riesner
- 2005, January Keystone Symposium on "Molecular Mechanisms of Transmissible Spongiform Encephalopathies (Prion Diseases)", Snowbird, Utah, USA: "Induction of amyloidic structures of prion proteins", **Jan Stöhr**, Karl-Werner Leffers, Holger Wille, Stanley B. Prusiner & Detlev Riesner
- 2004, October 4th National Meeting of the german "TSE Research Platform", Duesseldorf, Germany: "Dimers, oligomers and fibrils in prion conversion" **Jan Stöhr**, Tina Kaimann, Sabine Metzger & Detlev Riesner
- 2003, November International prion conference, Munich, Germany: "Induction of amyloidic structures of prion proteins" Karl-Werner Leffers, Holger Wille, **Jan Stöhr**, Erika Junger, Stanley B. Prusiner & Detlev Riesner

Publications

Peer reviewed publications

Leffers, K.-W., Wille, H., **Stöhr, J.**, Junger, E., Prusiner, S. B., Riesner, D. (2005). Assembly of natural and recombinant prion protein into fibrils. (Biological Chemistry, 386, 569-580.)

K. Wiesehan, **J. Stöhr**, L. Nagel-Steger, T. vanGroen, D. Riesner, D. Willbold, D. (2008) Inhibition of cytotoxicity and amyloid fibril formation by a D-amino acid peptide that specifically binds to Alzheimer's disease amyloid peptide. (Protein Engineering, Design and Selection, 21(4):241-246)

Jan Stöhr, Nicole Weinmann, Holger Wille, Tina Kaimann, Luitgard Nagel-Steger, Eva Birkmann, Giannantonio Panza, Stanley B. Prusiner, Manfred Eigen and Detlev Riesner. (2008). Mechanisms of prion protein assembly into amyloid (Proceedings of the National Academy of Sciences U.S.A., 105(7):2409-14)

Panza G, **Stöhr J**, Birkmann E, Riesner D, Willbold D, Baba O, Terashima T, Dumpitak C.(2008). Aggregation and amyloid fibril formation of the prion protein is accelerated in presence of glycogen (Rejuvenation Res., doi:10.1089/rej.2008.0698)

Giannantonio Panza; **Jan Stöhr**; Christian Dumpitak, Dimitrios Papathanassiou; Jürgen Weiß; Detlev Riesner; Dieter Willbold.(2008) Spontaneous and BSE-prion-seeded amyloid formation of full length recombinant bovine Prion Protein. (Biochemical and Biophysical Research Communications, in press.)

Kerstin Elfrink, Julian Ollesch, **Jan Stöhr**, Dieter Willbold, Detlev Riesner, Klaus Gerwert.(2008)Structural changes of membrane anchored native PrP^C. (Proceedings of the National Academy of Sciences U.S.A., in press)

Non-Peer Reviewed Publications (Book Chapter, Symposium Paper)

“Folding of the Recombinant Prion Protein” Rudi Glockshuber, **Jan Stöhr** and Detlev Riesner; In: Hörnlimann B, Riesner D, Kretzschmar H, editors. Prions in Humans and Animals. (de Gruyter, Berlin, 2006: Chapter 5; ISBN 3-11-018275-0)

“Von PrP-Monomeren zu PrP-Fibrillen und Infektiosität” (2006).Detlev Riesner, Eva Birkmann, Christian Dumpitak, Kerstin Elfrink, Klaus Kellings, Karl-Werner Leffers, Luitgard Nagel-Steger und **Jan Stöhr** (Nova Acta Leopoldina NF94, Nr. 347,61-77)

Methods/Skills (Keywords)

Electron-Microscopy: EM handling and sample preparation for negative- and immuno-labeling techniques; circular-dichroism spectroscopy; establishment of recombinant protein expression and purification; non-denaturing eukaryotic (from CHO-cell line) protein purification, analytical ultracentrifugation; amyloid staining techniques (Thioflavin T-assay; Congo red binding assay); biochemical techniques in protein analysis; working with biohazardous materials under BSL-2 and BSL-3 conditions; network administration for windows-based computer-networks