

Johannes Graumann — Curriculum Vitae

Personal Information

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Education

2000–2006 California Institute of Technology (Pasadena, California): Division of Biology doctoral program

1996–2000 University of Konstanz (Germany): Biologie Vordiplom (1998, B.S. equivalent) and Biologie Diplom (2000, M.S. equivalent), thesis on the “Biochemical and biophysical characterization of Hsp33, a new heat inducible molecular chaperone under redox control”

1995–1996 Civil service, caring for the elderly

1986–1995 Gymnasium am Krebsberg, Neunkirchen/Saar, Germany: Allgemeine Hochschulreife

Positions

2001–2006 Graduate Student, Laboratory of Prof. R. J. Deshaies, PhD., California Institute of Technology (Pasadena, California)

2001–2002 Visiting Collaborator, Laboratory of Prof. J. R. Yates III., PhD., The Scripps Research Institute (La Jolla, California)

2000 Research Assistant, Laboratory of Prof. J. C. Bardwell, PhD., University of Michigan (Ann Arbor, Michigan): diploma (masters) thesis research

1998 Research Assistant, Laboratory of Molecular Genetics, Prof. Dr. R. Knippers, University of Konstanz (Germany)

Honors and Awards

2002–2003 Gordon Ross Graduate Fellowship, California Institute of Technology

2000–2001 Lucy Mason Clark Fellowship, California Institute of Technology

1999 and 2000 Travel Grants from the German Academic Exchange Service
1995 Scheffel Award for Excellence in German Literature

Presentations Federation of European Biochemical Societies 30th Annual Congress, July 2005 (Budapest, Hungary), Symposium B2 “Protein Degradation”: Characterization of Substrate Delivery to the *S. cerevisiae* Proteasome by Shotgun Proteomics

University of Konstanz General Biology Seminar, June 2005 (Konstanz, Germany): Multidimensional Protein Identification Technology — Application to the Ubiquitin/Proteasome sSystem in Yeast (Among other Things)

The American Society for Cell Biology Annual Meeting, December 2002 (San Francisco, California), Subgroup “Proteomics in Cell Biology”: Application of MuDPIT to Cell Biology

Internships

1999 Internship with Prof. J. Beckwith, PhD. at Harvard Medical School, Department for Molecular Genetics and Microbiology (Boston, Massachusetts)

1999 Internship with Prof. G. Kelsoe, PhD. at Duke University Medical Center, Department of Immunology (Durham, North Carolina)

1997 Internship with Prof. Dr. Ingrid Grummt at the German Cancer Research Center (DKFZ; Heidelberg, Germany), Department of Cell Biology II.

1997 Internship with Dr. Sabine Englisch at the Steinbeiß Transfer Center for Biomolecular Medicine at the University of Konstanz, Germany

Teaching Experience

2004 Teaching Assistant, Bi250a “Topics in Molecular and Cellular Biology” Graduate Course (Prof. R. J. Deshaies, PhD.; California Institute of Technology, Pasadena, California)

2002 Teaching Assistant, Bi250c “Adventures in Biology” Graduate Course (Prof. G. Laurent, PhD.; California Institute of Technology, Pasadena, California)

2000 and 2003 Teaching Assistant, Bi10 Undergraduate Introductory Molecular Biology Laboratory (Prof. R. J. Deshaies, PhD.; California Institute of

Technology, Pasadena, California)
1997–1998 Teaching Assistant, Introductory Cell Biology Course (Prof. Dr. H. Plattner; University of Konstanz, Germany)

Technical Skills

Languages Boo, HTML/CSS, L^AT_EX 2_ε, Python, Perl, R
Mass Spectrometry Establishment and maintenance of a mass spectrometry facility using multidimensional capillary chromatography (Agilent HP1100, ThermoElectron Surveyor/ThermoElectron Micro AS Autosampler) in line to ThermoElectron’s DecaXP and LTQ ion trap mass spectrometers for data acquisition and a Linux cluster for data analysis
Operating System Linux (Debian GNU/Linux): extensive experience in desktop and server administration, cluster maintenance

Publications

Peer Reviewed E. E. Griffin, J. Graumann and D. C. Chan. *The WD40 protein Caf4p is a component of the mitochondrial fission machinery and recruits Dnm1p to mitochondria.* J Cell Biol, 2005. 170(2): 237–48
T. Mayor, J.R. Lipford, J. Graumann, G.T. Smith and R.J. Deshaies. *Analysis of polyubiquitin conjugates reveals that the rpn10 substrate receptor contributes to the turnover of multiple proteasome targets.* Mol Cell Proteomics, 2005. 4(6): 741–51
R. Verma, R. Oania, J. Graumann and R. J. Deshaies. *Multiubiquitin chain receptors define a layer of substrate selectivity in the ubiquitin–proteasome system.* Cell, 2004. 118(1): 99–110
W. H. McDonald, D. L. Tabb, R. G. Sadygov, M. J. MacCoss, J. Venable, J. Graumann, J. R. Johnson, D. Cociorva and J. R. Yates, 3rd. *MS1, MS2, and SQT – three unified, compact, and easily parsed file formats for the storage of shotgun proteomic spectra and identifications.* Rapid Commun Mass Spectrom, 2004. 18(18): 2162–2168
J. Graumann, L. A. Dunipace, J. H. Seol, W. H. McDonald, J. R. Yates, 3rd, B. J. Wold and R. J. Deshaies. *Applicability of tandem affinity purification MudPIT to pathway proteomics in yeast.* Mol Cell Proteomics, 2004. 3(3): 226–37
J. Graumann, H. Lilie, X. Tang, K.A. Tucker, J.H. Hoffmann, J. Vijayalakshmi, M. Saper, J.C. Bardwell and U. Jakob. *Activation of the redox-regulated molecular chaperone Hsp33—a two-step mechanism.*

Structure (Camb), 2001. 9(5): 377–87

J. Vijayalakshmi, M.K. Mukherjee, J. Graumann, U. Jakob and M.A. Saper. *The 2.2 Å crystal structure of Hsp33: a heat shock protein with redox-regulated chaperone activity*. Structure (Camb), 2001. 9(5): 367–75

Dissertation

J. Graumann. *Implementation of Multidimensional Protein Identification Technology and its Application to the Characterization of Protein Complexes in Bakers Yeast*. Ph.D. thesis, California Institute of Technology, 2006

Diploma Thesis

J. Graumann. *Biochemical and biophysical characterization of Hsp33, a new heat inducible molecular chaperone under redox control*. Master's thesis, University of Konstanz, Germany, 2000