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EDUCATION:

Ph.D. Biochemistry and Molecular Biology, May 2000,
University of California at Berkeley, Berkeley, CA
Dissertation Title: Role of an α -Helical Bulge and Kink in the Heat Shock Transcription
Factor

B.S. Chemistry/ M.S. Biochemistry, Cum Laude 1994,
Utah State University, Logan, UT
Thesis Title: Effect of Iron Binding on the Ability of Crocidolite to Cause DNA Single-
Strand Breaks

ACADEMIC HONORS:

- The Beckman Young Investigator Award, 2005-2008
- The Smith Family New Investigator Award, 2005-2007
- NIH Post-doctoral Fellowship (3-year Individual NRSA), Sunesis Pharmaceuticals, Inc., 2002-2005
- Japan Society for the Promotion of Science Post-doctoral Fellowship, Tokyo Inst. of Technology, 2000-2001
- Regents Fellowship, University of California at Berkeley, 1995-1996
- Outstanding Graduate Student Instructor Award, University of California at Berkeley, 1995-1996
- George H. and Billie Bush Emert Scholar, Utah State University, 1993-1994
- International Institute of Chemists Student Awardee 1993
- Harris O. and Eleanor Y. Van Orden Endowed Scholar, Utah State University, 1992-1993
- Garth L. Lee Undergraduate Scholar, Utah State University, 1992-1993
- Mortar Board Honor Society 1992-1993
- Utah State University Presidential Scholar, Utah State University, 1989-1993
- National Elks Foundation Scholar 1989-1993
- Robert L. Byrd Scholar, Utah State University, 1989-1990
- PEO Scholar, Utah State University, 1989-1990

RESEARCH EXPERIENCE:

2001-2005 Sunesis Pharmaceuticals, South San Francisco, CA
NIH Post-doctoral Fellow.

Identification and structural validation of a caspase allosteric site.

- 2000-2001 Tokyo Institute of Technology, Yokohama JAPAN
Japan Society for the Promotion of Science Post-doctoral Fellow.
Single molecule studies of MBP folding by the chaperonin GroEL/ES.
- 1997-2000 University of Pennsylvania, Department of Biochemistry & Biophysics,
Philadelphia, PA
Visiting Graduate Research Assistant.
Continued studies on heat shock transcription factor.
- 1994-1997 University of California at Berkeley, Department of Molecular and Cell Biology,
Berkeley, CA
Graduate Research Assistant.
Biochemistry and crystallography of heat shock transcription factor.
- 1990-1994 Utah State University, Department of Chemistry & Biochem, Logan, UT
Undergraduate (1990-1993)
Graduate Research Assistant (1993-1994).
Studied mechanism by which iron on asbestos increases DNA damage.

PUBLICATIONS and PATENTS:

- Hardy, J. A. and Wells, J. “Probing regions critical to the caspase-7 allosteric mechanism.”
Manuscript in preparation.
- Hardy, J. A. “A Link Means a Lot: Disulfide Tethering in Structure-Based Drug Design” in
Computational Approaches to Structure Based Drug Design, publishers Royal
Society of Chemistry, submitted with expected publication 2006.
- Hardy, J. A. and Wells, J. “Searching for Allosteric Sites in Enzymes.” **Curr. Opin. Str.
Biol.** 2004 14(6), 706-715.
- Hardy, J. A., Lam, J., Nguyen, J. T., O’Brien, T. and Wells, J. “Discovery of an allosteric
site in caspases.” **Proc. Natl. Acad. Sci. U S A.** 2004, 101(34), 12461-6.
- Erlanson, D.A., Hansen, S.K., Hardy, J. A., Lam, J., O’Brien, T. “Methods for Identifying
Allosteric Sites.” **World Patent** WO 03/087051 A2, April 11, 2003.
- Cicero, M. P., Hubl, S. T., Harrison, C. J., Littlefield, O., Hardy, J. A., Nelson, H. C. “The
wing in yeast heat shock transcription factor (HSF) DNA-binding domain is
required for full activity.” **Nucleic Acids Res.**, 2001, 29(8), 1715-23.
- Hardy, J. A. and Nelson, H. C. M. “Proline in an α -helical kink is required for folding
kinetics but not for kinked structure, function or stability of heat shock
transcription factor” **Protein Science**, 2000, 9(11), 2128-2141.

- Hardy, J. A., Walsh, S. T. R., and Nelson, H. C. M. "Role of an α -Helical Bulge in the Yeast Heat Shock Transcription Factor" **J. Mol. Biol.**, **2000**, 295(3), 393-409.
- Hardy, J. A. and Aust, A. E. "Iron in Asbestos Chemistry and Carcinogenicity" **Chem. Rev.**, **1995**, 95, 97-118.
- Hardy, J. A. and Aust, A. E. "The Effect of Iron Binding on the Ability of Crocidolite Asbestos to Catalyze DNA Single-Strand Breaks" **Carcinogenesis** , **1995**, 16(2), 319-325.

MEETING PARTICIPATION:

- Pacific Coast Protease Workshop 2004 Half Moon Bay, CA. Invited speaker.
- Apoptosis in Biochemistry and Structural Biology Keystone Symposia 2004 Keystone, CO. Invited speaker.
- New Advances in Drug Discovery Keystone Symposia 2003 Park City, UT.
- New Paradigms of Molecular Chaperones in the Postgenome Era 2001 Sapporo, Japan. Poster presentation.
- University of Pennsylvania Biochemistry and Biophysics Retreat 1999 Swarthmore, PA. Invited speaker.
- Frontiers in *De Novo* Protein Design. Biophysics Symposium 1998 Raleigh, NC. Poster presentation.
- Mid-Atlantic Crystallography 1998 Baltimore, MD. Poster presentation.
- Molecular Chaperones and the Heat Shock Response 1998 Cold Spring Harbor, NY. Poster presentation.
- West Coast Crystallography Workshop 1997 Asilomar, CA. Poster presentation.
- International Union of Crystallographers (IUCr) 1996 Seattle, WA.
- Protein Society 1996 San Jose, CA.
- Biophysical Society 1995 San Francisco, CA.
- American Association for Cancer Research 1994 San Francisco, CA. Poster presentation.

INVITED SEMINARS:

- 2004 University of Southern California - Department of Chemistry.
- 2004 Duquesne University - Department of Chemistry.
- 2004 Saint Louis University - Department of Biology.
- 2004 Barnard College - Department of Chemistry.
- 2004 Purdue University - Department of Biochemistry.
- 2004 University of Pennsylvania - Department of Biochemistry and Biophysics.
- 2004 University of Nebraska Medical Center - Department of Biochemistry.
- 2004 University of Massachusetts Amherst - Department of Chemistry.
- 2005 Princeton University - Department of Chemistry.
- 2005 University of Texas Southwestern Medical Center - Department of Biochemistry.
- 2005 University of Illinois Urbana Champaign - Department of Biochemistry.

- 2005 Indiana University - Department of Chemistry.
- 2005 Georgia Institute of Technology - Department of Chemistry and Biochemistry.
- 2005 Carnegie Mellon University - Department of Biology.
- 2005 University of Chicago - Department of Biochemistry.
- 2005 Utah State University - Department of Chemistry and Biochemistry.

TEACHING EXPERIENCE:

- Biomolecular Structure, Chemistry 791A, Fall 2005
University of Massachusetts Amherst, Department of Chemistry
- Graduate Student Instructor in Biochemistry and Molecular Biology Lab, 1997
University of California at Berkeley, Department of Molecular and Cell Biology
- Graduate Student Instructor in Principles of Biochemistry and Mol. Biology, 1995
University of California at Berkeley, Department of Molecular and Cell Biology

REFERENCES:

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