

BIOGRAPHICAL SKETCH-APPLICANT

Provide the following information for the key personnel in the order listed on Form Page 2.
Photocopy this page or follow this format for each person.

NAME Cindy Voisine		POSITION TITLE Postdoctoral Researcher	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Bates College Univ. of Wisconsin, Madison	B.S. Ph.D.		

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. **DO NOT EXCEED TWO PAGES.**

Professional Positions:

March 2005-present Postdoctoral Researcher, Northwestern University, Evanston, IL
Oct. 2000-March 2005 Postdoctoral Researcher, MGH Cancer Center, Charlestown, MA
Aug. 1993-Aug. 2000 Graduate Student, Department of Biomolecular Chemistry, University of Wisconsin, Madison, WI

Awards:

2005-2007 NIH Mechanisms of Aging and Dementia Fellowship
2002-2004 Hereditary Disease Foundation Milton Wexler Fellowship
2000-2002 Damon Runyon Cancer Research Fellowship
1994-1997 NIH Biotechnology Training Grant
1993-1999 Cremer Scholar, Univ. of Wisc. Medical School

Presentations:

Monitoring protein homeostasis using *C. elegans* models, Longevity Symposium 2006

Using *C. elegans* as a model system to understand polyglutamine neurotoxicity. Department of Microbiology, Molecular Biology and Biochemistry, University of Idaho at Moscow 2003

Genetic Analysis of Polyglutamine neurotoxicity in *C. elegans*. Huntington's Disease Research Meeting 2002

Genetic Analysis of Polyglutamine neurotoxicity in *Caenorhabditis elegans*. Society for Neuroscience 2001

Mutations in the *C. elegans pqe-1* gene enhance polyglutamine-mediated ASH neurodegeneration. International *C. elegans* Meeting 2001

Role of the mitochondrial Hsp70s, Ssc1 and Ssq1, in the maturation of Yfh1. Midwest Stress Response and Chaperone Conference 2000

Publications:

Voisine, C., Orton, K., and Morimoto, R.I. (in press) Protein Misfolding, Chaperone Networks, and the Heat Shock Response in the Nervous System. **Molecular Neurology**, Elsevier (**in press**)

Voisine, C*, Varma, H*, Walker, N* Bates, EA, Stockwell BR and Hart AC. (2007) Identification of potential therapeutic drugs for Huntington's disease using *Caenorhabditis elegans*. (**submitted**)

Varma, H, Voisine, C, De Marco, CT, Cattaneo, E, Lo, DC, Hart, AC, and Stockwell, BR. (2007) Selective inhibitors of death in mutant huntingtin cells. **Nature Chemical Biology**, Vol. 3 Number 2, 99-100.

Voisine, C and Hart, AC. (2004) *C. elegans* as a model system for triplet repeat diseases. **Methods in Molecular Biology**, Humana Press, 277, 141-160.

Faber, PW*, Voisine, C*, King, DC, Bates E, Hart, AC. (2002) Glutamine/proline-rich PQE-1 proteins protect *Caenorhabditis elegans* neurons from huntingtin polyglutamine neurotoxicity. **Proc. Natl. Acad. Sci. (USA)**, 99, 17131-17136.

Voisine, C, Cheng, YC, Ohlson, M, Schilke, B, Hoff, K, Beinert, H, Marszalek, J, Craig, EA. (2001) Jac1, a mitochondrial J-type chaperone, is involved in the biogenesis of Fe/S clusters in *Saccharomyces cerevisiae*. **Proc. Natl. Acad. Sci. (USA)**, 98, 1483-1488.

Voisine, C., Schilke, B., Ohlson, M., Beinert, H., Marszalek, J., and Craig E. (2000) Role of the mitochondrial Hsp70s, Ssc1 and Ssq1, in the maturation of Yfh1. **Molecular and Cellular Biology**, 20, 3677-3684.

Voisine, C., Craig, E.A., Zufall, N., von Ahsen, O., Pfanner, N. and Voos, W. (1999) The protein import motor of mitochondria: unfolding and trapping of preproteins are distinct and separable functions of matrix Hsp70. **Cell**, 97, 565-574.

Craig, E., Voisine, C., and Schilke, B., (1999) Mitochondrial Iron Metabolism in the Yeast *Saccharomyces cerevisiae*. **Biological Chemistry**, 380, 1167-1173.

Schilke, B., Voisine, C., Beinert, H. and Craig, E. (1999) Evidence for a conserved system for iron metabolism in the mitochondria of *Saccharomyces cerevisiae*. **Proc. Natl. Acad. Sci. (USA)**, 96, 10206-10211.

Davis, J., Voisine, C. and Craig, E. (1999) Intragenic suppressors of Hsp70 mutants: interplay between the ATPase and peptide binding domains. **Proc. Natl. Acad. Sci. (USA)**, 96, 9269-9276.

Research Summary:

Manipulating activity of molecular chaperones may provide a promising approach for treatment of various neurodegenerative diseases. Using feeding RNAi methods, we have demonstrated that aggregation of misfolded disease proteins is affected by a small subset of chaperones. I am