

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Anna-Karin Elisabeth Svensson		POSITION TITLE Postdoctoral researcher	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Regis University, Denver, CO	B.S.	1999	Biology, chemistry
Penn State University, University Park, PA	Ph.D.	2004	IBIOS/CB - Protein folding
Northwestern University, Evanston, IL	Postdoc	2007	Biochemistry

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Professional Positions:

May 1996 – April 1997, Summer undergraduate research assistant, National Renewable Energy Laboratory, Golden, CO

Jan – May 1997, Undergraduate research assistant, Regis University, Denver, CO

May – July 1997, Summer undergraduate research assistant, Amgen, Boulder, CO

Aug 1999 – Dec 2004, Graduate student fellow, The Pennsylvania State University, University Park, PA

Sept 2004 – Jan 2007, Postdoctoral position, University of Massachusetts Medical School, Worcester, MA

Feb 2007-present, Postdoctoral position, Northwestern University, Evanston, IL

Honors:

1996, Certificate of Achievement for General Chemistry, Regis University, Denver, CO

1997 – 1998, William T. Miller S.J. Scholarship, Regis University, Denver, CO

1998, A.W. Forstall S.J. Award in Natural Sciences, Regis University, Denver, CO

1999, Braddock Graduate Fellowship, Department of Chemistry, The Pennsylvania State University, University Park, PA

2000, Bristol Myers Squibb Travel Award to attend the 14th Annual Protein Society Symposium

2000, Travel award from The Center for Biomolecular Structure and Function/ LSC Chemical Biology Option/NSF-RTG Microbial Structural Biology Group, The Pennsylvania State University, to attend the 2001 AAAS Annual Meeting

2001, 2nd Place in the Life and Health Sciences category, Penn State 16th Annual Graduate Student Poster Exhibition

2006, Youth Travel Grant from FEBS (Federation of European Biochemical Societies) to attend the EMBO- FEBS Workshop on Amyloid Formation in Florence, Italy

Conference presentation – oral

A-K. E. Svensson. "Monomeric and dimeric intermediates populate the folding energy surface for metal-free human Cu,Zn superoxide dismutase." *Amyotrophic Lateral Sclerosis: Mutant SOD1, Neurodegeneration, and Therapeutic Approaches, Worcester, MA, September 21, 2004.*

A-K.E. Svensson. "Mapping the folding free energy surface for wild-type human SOD1 and fALS-inducing variants." *International Consortium of SOD and ALS (ICOSA), Long Beach, CA, October 6, 2006.*

Conference presentations – selected posters

V. F. Smith, A-K. E. Svensson, M. Iwakura, C. R. Matthews. "Backbone connectivity affects the stability, structure and the folding mechanism of dihydrofolate reductase from *E.coli*." *14th Annual Protein Society Symposium, San Diego, CA, August 5-9, 2000*

A-K. E. Svensson, V. F. Smith, M. Iwakura, C. R. Matthews. "Backbone connectivity affects the stability and function of *E.coli* dihydrofolate reductase." *167th AAAS National Meeting, San Francisco, CA, February 15-20, 2001.*

A-K. E. Svensson, J. C. Jr. O'Neill, C. R. Matthews. "The isomerization of a conserved non-prolyl *cis* peptide bond is coordinated with the rate-limiting steps in the folding of dihydrofolate reductase." *16th Annual Protein Society Symposium, San Diego, CA, August 17-21, 2002.*

A-K. E. Svensson, C. R. Matthews. "The folding of a β -barrel protein, apo-human superoxide dismutase." *GRC Protein Folding Dynamics, Ventura Beach, CA, January 11-16, 2004.*

A-K. E. Svensson, M.A. Samberg, J. A. Zitzewitz, C. R. Matthews. "Monomeric and dimeric intermediates populate the folding energy surface for metal-free human Cu,Zn superoxide dismutase." *Molecular Aspects of Misfolding Diseases, SFMB Annual Meeting, Linköping, Sweden, October 21-22, 2004.*

A-K. E. Svensson, J. A. Zitzewitz, O. Bilsel, C. R. Matthews. "The quantification of monomeric and dimeric intermediates in the equilibrium and kinetic folding reactions of metal-free human Cu,Zn superoxide dismutase by global analysis." *GRC Proteins, Plymouth, NH, June 19-24, 2005.*

A-K. E. Svensson, E. Kondrashkina, C. R. Matthews, O. Bilsel. "Folding of superoxide dismutase monitored by time-resolved SAXS." *19th Annual Protein Society Symposium. Boston, MA, July 30 - August 3, 2005.*

A-K. E. Svensson, J. A. Zitzewitz, O. Bilsel, C. R. Matthews. "The quantification of monomeric and dimeric intermediates in the equilibrium and kinetic folding reactions of metal-free human Cu,Zn SOD." *Amyotrophic Lateral Sclerosis: Causes and Therapeutic Perspectives, Montreal, Canada, September 9-10, 2005.*

A-K. E. Svensson, O. Bilsel, J. A. Zitzewitz, E. Kondrashkina, C. R. Matthews. "Mapping the folding free energy surface for metal-free human superoxide dismutase." *EMBO-FEBS Workshop on Amyloid Formation, Florence, Italy, March 25-28, 2006.*

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

A-K. E. Svensson, J. C. Jr. O'Neill, C. R. Matthews. "The coordination of the isomerization of a conserved non-prolyl *cis* peptide bond with the rate-limiting steps in the folding of dihydrofolate reductase." *J. Mol. Biol.* (2003), **326**(2):569-583.

A-K. E. Svensson, J. A. Zitzewitz, C. R. Matthews, V. F. Smith. "The relationship between chain connectivity and domain stability in the equilibrium and kinetic folding mechanisms of dihydrofolate reductase from *E.coli*." *Protein Eng. Des. Sel.* (2006), **19**(4):175-185.

A-K. E. Svensson, O. Bilsel, E. Kondrashkina, J. A. Zitzewitz, C. R. Matthews. "Mapping the folding free energy surface for metal-free human superoxide dismutase." *J. Mol. Biol.* (2006), **364**(5):1084-1102.

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

