

BIOGRAPHICAL SKETCH

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NAME Scott T. Walsh		POSITION TITLE Assistant Professor		
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
University of Illinois	Champaign, IL	B.S.	08/92-12/95	Biochemistry
University of Pennsylvania	Philadelphia, PA	Ph.D.	01/97-07/00	Biophysics/Struct. Biology
University of Chicago	Chicago, IL	Post-doc	08/00-09/03	Biophysics/Struct. Biology

Professional Experience:

8/93-7/95 Research Assistant, University of Illinois, Urbana-Champaign, IL
Department of Biochemistry
Undergraduate Advisor: Professor A. Joshua Wand

7/95-12/95 Research Assistant, University of Illinois, Urbana-Champaign, IL
Department of Biochemistry
Research Advisor: Professor John A. Gerlt

01/96-08/96 Research Technician, State University of New York at Buffalo, Buffalo, NY
Department of Chemistry
Research Advisor: Professor A. Joshua Wand

08/96-01/97 Research Specialist, University of Pennsylvania, Philadelphia, PA
Department of Biochemistry and Biophysics
Research Advisor: Professor William F. DeGrado

01/97-08/00 Graduate Student, University of Pennsylvania, Philadelphia, PA
Department of Biochemistry and Biophysics
Dissertation Advisor: Professor William F. DeGrado
Dissertation Title: "Evolution of a De Novo Designed Three-Helix Bundle Protein: from Structure to Function and Everything in between..."

8/00-09/03 Postdoctoral Fellow, University of Chicago, IL
Department of Biochemistry and Molecular Biology
Research Advisor: Professor Anthony A. Kossiakoff

10/01-present Ohio State University College of Medicine and Public Health, Columbus, OH
Assistant Professor (tenure-track), Department of Molecular and Cellular Biochemistry

Honors:

1994-1995 Colgate-Palmolive Undergraduate Research Fellowship

2000 Recipient of the national Harold M. Weintraub Graduate Student Award for outstanding dissertation research

2001-2003 Postdoctoral Fellowship (3-years): Burroughs Wellcome Fund Fellow of the Life Sciences Research Foundation, University of Chicago
Title: "Molecular Recognition Studies of Human Placental Lactogen"

Professional Societies:

1994-present American Chemical Society
1997-present Protein Society
1997-present American Association for the Advancement of Science
2001-present Biophysical Society

Publications:

1. Wilkinson, KD, Laleli-Sahin, E, Urbauer, J, Larsen, CN, Shih, GH, Haas, AL, **Walsh, STR**, & Wand, AJ (1999) "The Binding Site for UCH-L3 on Ubiquitin: Mutagenesis and NMR Studies on the Complex between Ubiquitin and UCH-L3" *J. Mol. Biol.* **291**: 1067-1077.
2. **Walsh, STR**, Cheng, H, Bryson, JW, Roder, H, & DeGrado, WF (1999) "Solution Structure and Dynamics of a *De novo* Designed Three-Helix Bundle Protein" *Proc. Natl. Acad. Sci. USA* **96**: 5486-5491.
3. Hardy, J, **Walsh, STR**, & Nelson, HCM (2000) "Role of an α -Helical Bulge in the Yeast Heat Shock Transcription Factor" *J. Mol. Biol.* **3**: 393-409.
4. **Walsh, STR**, Sukharev, VI, Betz, SF, Vekshin, NL, & DeGrado, WF (2001) "Hydrophobic Core Malleability of a *De Novo* Designed Three-Helix Bundle Protein" *J. Mol. Biol.* **305**: 361-373.
5. **Walsh, STR**, Lee, AL, DeGrado, WF, & Wand, AJ. (2001) "Dynamics of a *De novo* Designed Three-Helix Bundle Protein Studied by ^{15}N , ^{13}C , and ^2H NMR Relaxation Methods" *Biochemistry* **40**: 9560-9569.
6. Schiffer, C, Ultsch, M, **Walsh, S**, Somers, W, de Vos, AM, & Kossiakoff, A (2002) "Structure of a Phage Displayed-derived Variant of Human Growth Hormone Complexed to Two Copies of the Extracellular Domain of its Receptor: Evidence for Strong Structural Coupling between Receptor Binding Sites" *J. Mol. Biol.* **316**: 277-289.
7. **Walsh, STR**, Cheng, RP, Wright, WW, Alonso, DOV, Daggett, V, Vanderkooi JM, & DeGrado, WF (2003) "The Hydration of Amides in Helices: a Comprehensive Picture from Molecular Dynamics, IR, and NMR" *Protein Sci.* **12**: 520-531.
8. **Walsh, STR**, Jevitts, LM, Sylvester, JE, & Kossiakoff, AA. (2003) "Site2 Binding Energetics of the Regulatory Step of Growth Hormone-Induced Homodimerization" *Protein Sci.*: **12**: 1960-1970.
9. **Walsh, STR**, Sylvester, JE, & Kossiakoff, AA (2004) "The High and Low Affinity Receptor Binding Sites of Growth Hormone are Allosterically Coupled" *Proc. Natl. Acad. Sci. USA* **101**: 17078-17083.