

CURRICULUM VITAE

Jason G. McCoy, PhD

*Department of Biochemistry
University of Wisconsin-Madison
Madison WI 53706*

EDUCATION

June 2000 – May 2006

Ph.D. Department of Biochemistry,
University of Wisconsin-Madison, (Madison, WI)

August 1993 – December 1997

B.S. Biology and Chemistry, Truman State University
(Kirksville, MO)

POSTDOCTORAL RESEARCH

January 2007 -

Genomic Sciences Training Program Postdoctoral Fellow, Department of
Biochemistry, University of Wisconsin-Madison

May – December 2006

Postdoctoral Associate
Center for Eukaryotic Structural Genomics (Madison, WI)

TEACHING EXPERIENCE

January 2003 – May 2003

BIOCHEM 508 (Introduction to Biochemistry II) Teaching
Assistant, University of Wisconsin-Madison (Madison, WI)

September 2001 – December 2001

BIOCHEM 601 (Protein Structure and Function) Teaching
Assistant, University of Wisconsin-Madison (Madison, WI)

June 1997 – December 1997

Organic Chemistry Lab Teaching Assistant,
Truman State University (Kirksville, MO)

EMPLOYMENT

August-1999 – May 2000

Technology Specialist
Monsanto Life Sciences / Searle Pharmaceuticals (Augusta, GA)

January 1998 – August 1999

Research Biologist
Monsanto Life Sciences (Chesterfield, MO)

January 1995 – December 1997

Computer Lab Attendant
Truman State University (Kirksville, MO)

August 1991 – August 1993

Recycling Facility Staff
Anheuser-Busch Recycling (St. Peters, MO)

HONORS

2006

Faculty of 1000 recommended paper "Structure and mechanism of mouse
cysteine dioxygenase" (see below)

August 2002 - July 2004 and
June 2005 - May 2006

Awarded NLM Computation and Informatics in Biology and Medicine
Training Grant

PUBLICATIONS

Johnson RJ, **McCoy JG**, Bingman CA, Phillips GN Jr, Raines RT. Inhibition of human pancreatic ribonuclease by the human ribonuclease inhibitor protein, *J Mol Biol.* **2007**, 368(2): 434-49.

Bitto E, Bingman CA, Wesenberg GE, **McCoy JG**, Phillips GN Jr. Structure of aspartoacylase, the brain enzyme impaired in Canavan disease. *Proc Natl Acad Sci USA.* **2006**, 104(2): 456-61.

McCoy JG, Bitto E, Bingman CA, Wesenberg GE, Bannen RM, Kondrashov DA, Phillips GN Jr. Structure and Dynamics of UDP-Glucose Pyrophosphorylase from *Arabidopsis thaliana* with Bound UDP-Glucose and UTP. *J Mol Biol.* **2006**, 366(3):830-41.

McCoy JG, Bingman CA, Bitto E, Holdorf MM, Makaroff CA, and Phillips GN Jr. Structure of an ETHE1-like protein from *Arabidopsis thaliana*. *Acta Crystallogr D Biol Crystallogr.* **2006**, 62 (9): 964-70.

Bitto E, Bingman CA, Wesenberg GE, **McCoy JG**, and Phillips GN Jr. Structure of pyrimidine 5'-nucleotidase type 1: Insight into mechanism of action and inhibition during lead poisoning. *Journal Biol. Chem.* **2006**, 281 (29): 20521-9.

McCoy JG, Arabshahi A, Bitto E, Bingman CA, Ruzicka FJ, Frey PA, Phillips GN Jr. Structure and mechanism of an ADP-glucose phosphorylase from *Arabidopsis thaliana*. *Biochemistry.* **2006**, 45 (10): 3154-62.

McCoy JG, Bailey LJ, Bitto E, Bingman CA, Aceti DJ, Fox BG, Phillips GN Jr. Structure and mechanism of mouse cysteine dioxygenase. *Proc Natl Acad Sci USA.* **2006**, 103 (9): 3084-9.

Bitto E, Bingman CA, **McCoy JG**, Allard ST, Wesenberg GE, Phillips GN Jr. The structure at 1.6 Angstroms resolution of the protein product of the At4g34215 gene from *Arabidopsis thaliana*. *Acta Crystallogr D Biol Crystallogr.* **2005**, 61 (12): 1655-61.

PRESENTATIONS

Phillips GN, Jr, **McCoy J**, Bannen R, and Kundu S. Models of Dynamic Disorder in Protein Crystals: Theory and New Analysis. American Crystallographic Association Meeting, 2003.

McCoy JG (speaker). Role of Functional Studies at the Center for Eukaryotic Structural Genomics. American Crystallographic Association Meeting, 2006.