

# Amy C. Rosenzweig

## **EDUCATION**

Amherst College, B. A. in Chemistry, *Summa Cum Laude*, 1988  
Massachusetts Institute of Technology, Ph. D. in Inorganic Chemistry, 1994

## **POSITIONS**

Professor, Departments of Molecular Biosciences and of Chemistry, Northwestern University, 2005-present  
Irving M. Klotz Research Professor, Northwestern University, 2004-2006  
Associate Professor, Departments of Biochemistry, Molecular Biology, and Cell Biology and of Chemistry, Northwestern University, 2002-2005  
Assistant Professor, Departments of Biochemistry, Molecular Biology, and Cell Biology and of Chemistry, Northwestern University, 1997-2002  
Harvard Medical School and Dana Farber Cancer Institute, NIH Postdoctoral Fellowship, 1994-1997

## **HONORS AND AWARDS**

Elected Fellow, American Association for the Advancement of Science, 2007  
American Chemical Society Nobel Laureate Signature Award for Graduate Education, 2006  
Honorary Degree, Doctor of Science, Amherst College, 2005  
MacArthur Fellow, 2003  
Camille Dreyfus Teacher Scholar Award, 2001  
David and Lucile Packard Fellow, 1999

## **RECENT PROFESSIONAL ACTIVITIES**

Chair, Metals in Biology Gordon Conference, 2013  
Vice Chair, Metals in Biology Gordon Conference, 2012  
Editorial Advisory Board of the *Journal of Inorganic Biochemistry*, 2010-2014  
Editorial Advisory Board of the *Journal of Biological Inorganic Chemistry*, 2009-2011  
Editorial Advisory Board of *Inorganic Chemistry*, 2009-2012  
Co-organizer, Dioxygen Activation Chemistry and Catalytic Oxidation Reactions Symposium, Pacificchem 2010, December 1-20, 2010  
Co-editor, *Methods in Enzymology* volumes 494 and 495, *Methods in Methane Metabolism*  
Member, Proposal Review Panel, Stanford Synchrotron Radiation Light Source, 2010-present  
Member, MFSA Study Section, Center for Scientific Review, National Institutes of Health, 2006-2010  
Elected Chair, Bioinorganic Subdivision, American Chemical Society, 2009

## **RECENT PUBLICATIONS**

Boal, A. K.; Grove, T. L.; McLaughlin, M. I.; Yennawar, N. H.; Booker, S. J.; Rosenzweig, A. C. Structural basis for methyl transfer by a radical SAM enzyme. *Science* **2011**, published online April 28.  
Smith, S. M.; Balasubramanian, R.; Rosenzweig, A. C. Metal reconstitution of particulate methane monooxygenase and heterologous expression of the pmoB subunit. *Methods Enzymol.* **2011**, 495, 195-210.  
Boal, A. K.; Cotruvo, J. A., Jr.; Stubbe, J.; Rosenzweig, A. C. Structural basis for activation of class Ib ribonucleotide reductase. *Science* **2010**, 329, 1526-1530.  
Traverso, M. E.; Subramanian, P.; Davydov, R.; Hoffman, B. M.; Stemmler, T. L.; Rosenzweig, A. C. Identification of a hemerythrin-like domain in a P<sub>1B</sub>-type transport ATPase. *Biochemistry* **2010**, 49, 7060-7068.  
Balasubramanian, R.; Smith, S. M.; Rawat, S.; Yatsunyk, L. A.; Stemmler, T. L.; Rosenzweig, A. C. Oxidation of methane by a biological dicopper center. *Nature* **2010**, 465, 115-119.  
Balasubramanian, R.; Levinson, B. T.; Rosenzweig, A. C. Secretion of flavins by three species of methanotrophic bacteria. *Appl. Environ. Microbiol.* **2010**, 76, 7356-7358  
Walker, C. B., *et al.* The *Nitrosopumilus maritimus* genome reveals unique mechanisms for nitrification and autotrophy in globally distributed marine crenarchaea. *Proc. Natl. Acad. Sci. USA* **2010**, 107, 8818-8823.