

James R. Partridge

60 Wadsworth St. Apt 4C • Cambridge, MA 02142 • (617) 650-0715 • Email: jamesp@mit.edu

Education:

MASSACHUSETTES INSTITUTE OF TECHNOLOGY Cambridge, MA

Candidate for Ph.D. degree in Biochemistry and Structural Biology, May 2010

Crystallographic and biophysical characterization of protein complexes from the Nuclear Pore Complex. *GPA 4.3/5.0*

Advisor: Dr. Thomas U. Schwartz

Law/Business related coursework at MIT Sloan School of Management:

Basic Business Law and New Technologies

UNIVERSITY OF CALIFORNIA at DAVIS

Davis, CA

Bachelor of Science in Cell Biology, minor in Literature, June 2004. *GPA 3.6/4.0*

Publications:

Partridge, J.R.^{*}, Pandya, R.K.^{*}, Love, K.R., Schwartz, T.U., and Ploegh, H.L. (2010). A Structural Element within the HUWE1 HECT Domain Modulates Self-ubiquitination and Substrate Ubiquitination Activities. *J Biol Chem* 285, 5664-5673.

^{*}equal contribution

Partridge, J.R.^{*}, Brohawn, S.G.^{*}, Whittle, J.R.^{*}, and Schwartz, T.U. (2009). The nuclear pore complex has entered the atomic age. *Structure* 17, 1156-1168.

^{*}equal contribution

Partridge, J.R., and Schwartz, T.U. (2009). Crystallographic and biochemical analysis of the Ran-binding zinc finger domain. *J Mol Biol* 391, 375-389.

Esquela-Kerscher, A., Johnson, S.M., Bai, L., Saito, K., **Partridge, J.**, Reinert, K.L., and Slack, F.J. (2005). Post-embryonic expression of *C. elegans* microRNAs belonging to the lin-4 and let-7 families in the hypodermis and the reproductive system. *Dev Dyn* 234, 868-877.

Oral Presentation:

Partridge, J.R., and Schwartz, T.U. *Crystallographic and Biochemical Analysis of Ran Binding Zinc Finger Domain*. Presented at the MIT Biology Department Structural Meeting. Nov, 2008.

Research:

Graduate Research and Ph.D. Thesis. Massachusetts Institute of Technology, September 2004 – Present. Advisor: Prof. Thomas U. Schwartz.

Biochemical and structural analysis of large structural elements and protein complexes from the nuclear pore complex. My primary technique in studying these complexes is X-ray crystallography, complemented by biophysical, biochemical, and genetic methods as listed below.

My current research is focused on the analysis of nuclear pore subcomplexes essential for maintaining the core scaffold of the nuclear pore complex.

Teaching Experience:

Massachusetts Institute of Technology: 7.012 (Undergraduate Molecular Biology) – Spring 2006 / 2008

Academic Organizations:

Member of the McNair Scholars Program at UC Davis, January 2002 - June 2004.

Member of Phi Sigma, Biological Sciences Honor Society. May 2003 - 2005.

UC Davis Mens Crew (treasurer) September 2001 – June 2004

Awards, Honors:

Herman Eisen Fellowship in Biology (2007); Honors in National Science Foundation Fellowship Competition (2004 and 2005); Summer Undergraduate Research Fellowship, Yale University (2003), Deans List Notations, University of California, Davis: (Fall 2001, Winter 2002, Spring 2002, and Spring 2003