Matthew D. Shirley

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Education:

2013 Ph.D. Biochemistry, Cellular and Molecular Biology,

Johns Hopkins School of Medicine, Baltimore, Maryland

Thesis: "A survey of human genetic variation reveals a basis for Sturge-Weber syndrome and

non-syndromic port-wine stain" Advisor: Dr. Jonathan Pevsner

2008 B.S. **Biochemistry**, University of Missouri, Columbia, Missouri

Advisor: Dr. Judy Wall

Research Experience:

2010-2012	Ph.D. candidate, Department of Neuroscience, Johns Hopkins School of Medicine
2008-2010	Ph.D. candidate, Department of Pharmacology, Johns Hopkins School of Medicine
2006-2008	Undergraduate research, Department of Biochemistry, University of Missouri

Awards, Honors and Affiliations:

American Society for Biochemistry and Molecular Biology Capitol Hill Day, Washington	n DC
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2008 Alpha Chi Sigma Chemistry Society, Delta Chapter

2007 Chancellor's Award for Excellence in Undergraduate Research

Peer-Reviewed Publications:

Shirley MD, et al. "A GNAQ Somatic Mutation Causes Sturge-Weber Syndrome and Port-wine Stains". New England Journal of Medicine. In Press.

Baugher JD, **Shirley MD**, Baugher BD, Pevsner J. "Sensitive and specific detection of mosaic chromosomal abnormalities using parent-of-origin analysis". Under Review.

Stevens EL, Baugher JD, **Shirley MD**, Frelin LP, Pevsner J. "Unexpected relationships and inbreeding in HapMap phase III populations". PLoS ONE. 2012. PMID 23185369.

Shirley MD, Baugher JD, Stevens EL, Tang Z, Gerry N, Beiswanger CM, Berlin DS, Pevsner J. "Chromosomal variation in lymphoblastoid cell lines". Human Mutation. 2012. PMID 22374857.

Teaching Experience:

Invited Presentation, Galaxy for NGS Analysis, Bioinformatic Analysis of Next Generation Sequencing Data, Biotrac 45, Foundation for Advanced Education in the Sciences, Bethesda, MD, October 9 2012.

Abstracts:

Rho HS, Newman RH, Hu J, Xie Z, Woodard C, Neiswinger J, Cooper C, **Shirley M** et al. "Activity-Based Phosphorylation Networks in Humans", Poster, Human Proteome Organization, Boston MA. 2012

Shirley MD, Baugher JD, Stevens EL, Tang Z, Gerry N, Beiswanger CM, Berlin DS, Pevsner J. "Chromosomal variation in lymphoblastoid cell lines", Poster, JHMI GSA. 2012

Shirley MD, Wall JD. "Studying Metal Reduction by a Sulfate-Reducing Bacterium", Poster, Jefferson City, MO. 2008

Shirley MD, Ringbauer JA, Wall JD. "Rapid Automated Characterization of Transposon Insertion Mutants in Desulfovibrio vulgaris Hildenborough by srnPCR", Poster, Virtual Institute for Microbial Stress and Response, UC Berkeley. 2007