

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:

- 2012 American Society for Biochemistry and Molecular Biology Capitol Hill Day, Washington DC
 2008 Alpha Chi Sigma Chemistry Society, Delta Chapter
 2007 Chancellor's Award for Excellence in Undergraduate Research

Peer-Reviewed Publications:

- R.H. Newman, J. Hu, H. Rho, Z. Xie, C. Woodard, J. Neiswinger, C. Cooper, **M. Shirley**, H.M. Clark, S. Hu, W. Hwang, J. Jeong, G. Wu, J. Lin, X. Gao, Q. Ni, R. Goel, S. Xia, H. Ji, K.N. Dalby, M.J. Birnbaum, P.A. Cole, S. Knapp, A.G. Ryazanov, D.J. Zack, S. Blackshaw, T. Pawson, A.C. Gingras, S. Desiderio, A. Pandey, B.E. Turk, J. Zhang, H. Zhu, J. Qian. "Construction of human activity-based phosphorylation networks". *Molecular Systems Biology*. 2013 (in press).
- 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