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Education

- 2008-2013 **Ph.D. Biochemistry, Cellular, Molecular Biology,**
(anticipated) Johns Hopkins School of Medicine, Baltimore, MD
 Advisor: Jonathan Pevsner
 Dissertation: "Chromosomal Variation in Human Cells"
- 2004-2008 **B.S. Biochemistry,** University of Missouri, Columbia, MO
 Advisor: Judy Wall
 Honors Thesis: "Method for Rapidly Characterizing Transposon-Insertion Mutants"

Academic and Professional Experience

- 2008-present **Ph.D. candidate,** Dept. of Neuroscience, Johns Hopkins School of Medicine.
2006-2008 **Research assistant,** 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, University of Missouri Chapter
2007 Chancellor's Award for Excellence in Undergraduate Research

Publications

1. **Shirley MD**, Baugher JD, Stevens EL, Tang Z, Gerry N, Beiswanger CM, Berlin DS, Pevsner J. Chromosomal variation in lymphoblastoid cell lines. Hum Mutat. 2012 Feb 28. doi:10.1002/humu.22062.
2. Newman, R.H, Hu, J, Rho, H.-S., Xie, Z., Woodard, C., Neiswinger, J., Hwang, W., **Shirley, M.**, Hu, S., Cooper, C., Jeong, J.S., Wu, G., Lin, J., Gao, X., Ni, Q., Ji, H., Desiderio, S., Dalby, K., Birnbaum, M.J., Cole, P.A., Knapp, S., Ryazanov, A., Zack, D.J., Blackshaw, S., Pawson, T., Gingras, A.-C., Pandey, A., Turk, B.E., Zhang, J., Zhu, H. and Qian, J. Activity-Based Phosphorylation Networks in Humans. Submitted.
3. Baugher JD, **Shirley MD**, Baugher BD, Pevsner J. Sensitive and specific detection of mosaic chromosomal abnormalities using parent-of-origin analysis. In preparation.
4. Stevens EL, Baugher JD, **Shirley MD**, Frelin LP, Pevsner J. Unexpected relationships and inbreeding in HapMap phase III populations. In preparation.

Abstracts

- 2012 Hee-Sool Rho; Robert H. Newman; Jianfei Hu; Zhi Xie; Crystal Woodard; John Neiswinger; Christopher Cooper; **Matthew Shirley**; Shaohui Hu; Woochang Hwang; Jun Seop Jeong; George Wu; Jimmy Lin; Qiang Ni; Renu Goel; Shuli Xia; Hong kai Ji; Kevin N. Dalby; Morris J. Birnbaum; Philip A. Cole; Stefan Knapp; Alexey G. Ryazanov; Donald J. Zack; Seth Blackshaw; Tony Pawson; Anne-Claude Gingras; Stephen Desiderio; Akhilesh Pandey; Benjamin E. Turk; Jin Zhang; Jiang Qian; Heng Zhu. "Activity-Based Phosphorylation Networks in Humans", Poster, Human Proteome Organization.
- 2012 **Shirley MD**, Baugher JD, Stevens EL, Tang Z, Gerry N, Beiswanger CM, Berlin DS, Pevsner J. "Chromosomal variation in lymphoblastoid cell lines", Poster, Johns Hopkins School of Medicine GSA Poster Session.
- 2008 **Matthew D. Shirley**, Judy D. Wall. "Studying Metal Reduction by a Sulfate-Reducing Bacterium", Poster, Missouri Senate Capitol Hill Research Day.
- 2007 **Matthew D. Shirley**, Joseph A. Ringbauer, Judy D. Wall. "Rapid Automated Characterization of Transposon Insertion Mutants in *Desulfovibrio vulgaris* Hildenborough by srnPCR", Poster, Virtual Institute for Microbial Stress and Response, UC Berkeley.