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### EDUCATION

- 1993-1997 B.S., 1997, Cum Laude, Biology and Chemistry, Valparaiso University, Valparaiso, IN.
- 2000-2005 Ph.D., 2005, Cellular, Molecular, Developmental Biology and Biophysics, The Johns Hopkins University, Baltimore, MD. Characterization of vertebrate kinesin-2, Trina A. Schroer, Biochemical analysis of motility and cargo binding properties of native kinesin-2.

### POSTDOCTORAL EXPERIENCE

- 2005-2006 Carnegie Institution of Washington, Department of Embryology, Yixian Zheng, Mechanisms of spindle assembly/disassembly through temporal organization of microtubule motors, nucleators and associated factors.

### PROFESSIONAL EXPERIENCE

- 1998-2000 Research Assistant, University of Colorado Health Sciences Center/Colorado Cancer Center, Department of Pathology, Denver, CO. Molecular markers in lung cancer, Wilbur A. Franklin and Marileila Varella-Garcia, Assessment of chromosomal aneuploidy by fluorescence *in situ* hybridization (FISH) and loss of heterozygosity in human cancers.
- 2006-2007 Visiting Assistant Professor, Lincoln University, Department of Biology, Lincoln University, PA.

### PROFESSIONAL SOCIETIES

- The American Association for Advancement of Science.
- The American Society for Cell Biology.

### PUBLICATIONS

- Berezuk, MA, Schroer, TA. Armadillo repeats of the KAP3 subunit of kinesin-2 interact with actin and arp 1 of dynactin. Manuscript submitted. *Mol.Biol.Cell.*

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- Berezuk, MA, Schroer, TA. Dynactin enhances the processivity of kinesin-2. *Traffic*. Vol. 8 (2007) pp.124-129.
- Berezuk, MA, Schroer, TA. Fractionation and characterization of kinesin II species in vertebrate brain. *Traffic*. Vol. 5 (2004) pp. 503-513.
- Berezuk, MA, West, J, Varella-Garcia, M, Franklin, WA. Adjusting interphase FISH results in epithelial tissue sections to whole cell complement. *Anal. Quant. Cytol. Histol.* Vol. 23 (2001) pp. 93-100.

### ABSTRACTS FOR PROFESSIONAL MEETINGS

- Berezuk, MA, Schroer, TA. Mapping interactions between the KAP3 subunit of kinesin II and dynactin. *Mol. Biol. Cell*. Vol. 15 (2004) pp. 279a. (American Society for Cell Biology Meeting, 2004).
- Berezuk, MA, Schroer, TA. Processivity enhancement of kinesin II by dynactin. *Mol. Biol. Cell*. Vol. 14 (2003) pp. 427a. (American Society for Cell Biology Meeting, 2003).
- Berezuk, MA, Schroer, TA. Characterization of Native Kinesin II Purified from Chick Embryo Brain. *Mol. Biol. Cell*. Vol. 13 (2002) pp. 323a. (American Society for Cell Biology Meeting, 2002).
- Franklin, WA, Berezuk, MA, Anderson, MA, Mault, J, Pomeranz, M, Wiest, J and Varella-Garcia, M. P53 mutation is associated with multiple copies of mutant p53 allele and with chromosomal instability in non-small cell lung carcinoma (NSCLC). *Lung Cancer*. Vol. 29 (2000) pp. 177-178. (International Association for the Study of Lung Cancer Meeting, 2000)
- Berezuk, MA, West, J, Varella-Garcia, M, Franklin, WA. A numerically fit model equation for adjusting fluorescence *in situ* hybridization (FISH) signal counts in tissue sections to *in vivo* ploidy for epithelial cells. *Proc. Amer. Assn. Cancer Res.* Vol. 41 (2000) pp. 186. (American Association for Cancer Research Meeting, 2000).
- Franklin, WA, Berezuk, MA, Varella-Garcia, M. Chromosomal instability in NSCLC reflected by two color FISH for eighteen  $\alpha$  satellite markers. *Proc. Amer. Assn. Cancer Res.* Vol. 40 (1999) pp. 189. (American Association for Cancer Research Meeting, 1999).