

## Shay Y. West, PhD

drshsaywest@gmail.com

### Academic Background

- Graduated May 2009 PhD in Human Medical Genetics, University of Colorado Denver Anschutz Medical Campus
- Graduated May 2003 B.S. in Biology, Mesa State College

### Teaching Experience

- January 2011 to present. Adjunct faculty at Colorado Mesa University; Biology for non-majors, Pharmacology, Biotechnology
- January 2010 to December 2010. Adjunct Faculty at Community College of Aurora; Biology for majors and non-majors

### Professional Experience

- June 2009 to December 2010. Post-doctoral work at UCD/AMC, Aurora, CO  
Project involved with trying to find candidate genes responsible for the rare bleeding disorder, gray platelet syndrome utilizing the following techniques: handling of human whole blood, serum, and plasma, DNA extraction from aforementioned fluids, whole-genome amplification, genotyping using Affymetrix SNP chips, primer design for gene sequencing, use of Sequencer to analyze gene sequences.
- August 2003 to May 2009. Graduate work at UCD/AMC, Aurora, CO  
Thesis project involved examination of the plasminogen activator system in Alzheimer's disease. Worked with human brain tissue utilizing the following techniques: western blot, immunohistochemistry, immunofluorescence, immunocapture assays, ELISA, and zymography. Worked with mouse models including various knock-outs and transgenic animals utilizing the following techniques: Animal husbandry, PCR, western blot, immunohistochemistry, immunofluorescence, *in situ* hybridization, immunocapture assays, behavioral analysis, and surgical injections. Computer skills include: Microsoft Word, Powerpoint, Excel, EndNote, Corel Draw, Prism GraphPad, and AlphaImager v5.5
- August 2001 to May 2003. Undergraduate research at Mesa State College, Grand Junction, CO  
Under the supervision of Dr. Steven Werman, I worked on a project that focused on differentiating Cope's Giant (*Dicamptodon copei*) and Pacific Giant (*Dicamptodon tenebrosus*) salamanders using paired interspersed nuclear elements (PINES) to search for genetic markers that can be used to differentiate the two species.
- May 2001 to September 2001. Redlands Mosquito Control District, Grand Junction, CO  
Scouted areas of water in the Redlands area of Grand Junction for mosquito larvae and treated those areas with bacterial larvacide. Assisted the Mesa County Health Department with bleeding of chickens.

- May 2001 to August 2001. Hanta Virus Research Aide: near Molina, CO.  
Set traps for deer mice on Grand Mesa and assisted with the collection of the mice for field studies to determine if mice were carrying Hanta Virus. Assisted with the collection of insects for parallel study to determine if the insect population affected the deer mice population.
- July 2000 to August 2000. Mesa State College  
In joint project with Oregon State University, Newport, OR, studied marine invertebrate communities and learned how to classify several species from the four different intertidal zones

### **Affiliations and Awards**

#### Affiliations:

- Member of The Society for Neuroscience
- Member of the Tri-Beta National Honor Society, Epsilon Omicron Chapter

#### Awards:

- ASBMB Travel Award
- Frank G. Brooks Award for Excellence in Student Research, 2003

### **Publications**

#### Papers:

- Kahr, Walter et al. 2011. Mutations in NBEAL2, encoding a BEACH protein, cause gray platelet syndrome. *Nature Genetics*. **43**:738-40
- Fabbro S, Schaller K, Seeds NW. 2011. Amyloid-beta levels are significantly reduced and spatial memory defects are rescued in a novel neuroserpin-deficient Alzheimer's disease transgenic mouse model. *J Neurochem*. **118**:928-38.
- Fabbro, Shay et al. 2011. Homozygosity mapping with SNP arrays confirms 3p21 as a recessive locus for gray platelet syndrome and narrows the interval significantly. *Blood*. **117**: 3430-3434
- Fabbro, Shay and Nicholas W. Seeds. 2009. Tissue Plasminogen Activator Activity is Dramatically Reduced while Neuroserpin is up-regulated in the Alzheimer Disease Brain. *Journal of Neurochemistry*. **109**: 303-315.

#### Abstracts:

- Plasminogen Activator Inhibition in Alzheimer's Disease. Presented at the Experimental Biology meeting in San Diego, April 2008
- Plasminogen Activator Inhibition in Alzheimer's Disease. Presented at the Rocky Mountain Regional Neuroscience Group meeting in Denver, CO, May 2008
- The Role of the Plasminogen Activator System in Alzheimer's Disease. Presented at the Rocky Mountain Regional Neuroscience Group meeting in Denver, CO, May 2007
- The Plasminogen Activator System and its Inhibitors in Alzheimer's Disease. Presented at the Hartford Jahnigen Cognitive impairment meeting in Denver, January 2007