

Alexis M. Zukowski

OBJECTIVE

To obtain admission into a PhD program in Cell, Molecular, and Developmental Biology in order to pursue research focused on the pathogenesis of vascular disorders.

EDUCATION

- August 2007-May 2010 **San Diego State University**
B.S Biology, Emphasis: Cellular and Molecular Biology; GPA 3.51
- June 2005-June 2007 **Grossmont-Cuyamaca Community College**
Biology Major, GPA 2.79
- August 2004-May 2005 **Southern New Hampshire University**
Undeclared Major, GPA 3.19

RESEARCH EXPERIENCE

- June 2009-August 2009 **Summer Internship Program (SIP): National Institutes of Health – National Cancer Institute**
Bethesda, MD; Staff Scientist: Mary L. Stracke, M.D.
- Specific Aim: The characterization of truncated autotaxin (ATX) mutants with respect to secretion, motility stimulation, and enzyme activity.
 - Maintained COS-1 cell cultures.
 - Performed immunoblots, densitometer analysis, enzymatic assays, immunofluorescence staining, and graphical analysis using Excel.
 - Read and remained up to date on pertinent scientific literature.
- June 2007-Present **Independent Research/Study**
San Diego State University, Dr. Greg Harris
- Specific Aim: Analysis of Ethanol Sensitivity, Tolerance, and Metabolism in *Drosophila* Sphingolipid Mutants.
 - Involves use of the model organism, *Drosophila melanogaster*.
 - Classic genetics to create and perpetuate fly lines.
 - Employed the use of behavioral assays with an inebriometer.
 - Conducted alcohol-dehydrogenase activity assays.
- June-August 2006 **SDSU Bridges to the Future Summer Internship/Research**
San Diego State University, Dr. Paul Paolini
- Specific Aim: Microarray Analysis to Measure the Effects of the Antidiabetic Drug Rosiglitazone on Gene Expression in Neonatal Rat Cardiomyocytes.
 - Maintained neonatal rat cardiomyocytes.
 - Learned basic lab techniques: Northern blot, PCR, transfection of mammalian cells.

PRESENTATIONS

November 2008 **Annual Biomedical Research Conference for Minority Students**
*Poster: The Analysis of Ethanol Sensitivity, Tolerance, and Metabolism in Sphingolipid *Drosophila* Mutants*

February 2009 **San Diego State University Student Research Symposium**
*Oral Presentation: The Analysis of Ethanol Sensitivity, Tolerance, and Metabolism in Sphingolipid *Drosophila* Mutants*

April 2009 **West Coast Biological Sciences Undergraduate Research Conference**
*Oral Presentation: The Analysis of Ethanol Sensitivity, Tolerance, and Metabolism in Sphingolipid *Drosophila* Mutants*

August 2009 **NIH Poster Day 2009**
Poster: Processing and Enzymatic Activity of Truncation Mutants of the Lysophosphatidic Acid-producing Exoenzyme, Autotaxin.

MEMBERSHIPS

June 2006-Fall 2008 **San Diego State University Bridges to the Future Scholar - NIH**

May 2008- Present **Minority Biomedical Research Support (MBRS) Scholar – NIH
NIGMS IMSD**

June 2009-August 2009 **NIH Cancer Research Training Award (CRTA) Fellow**

AWARDS

Dean's List Fall 2008, Spring 2009

COURSES

Organic Chemistry I & II
Biochemistry I - III

General Chemistry I & II
Calculus I – III

Microbiology
Genetics

WORK EXPERIENCE

March 2008-Present **San Diego Asian-American Film Festival**
San Diego, CA; Festival Director: Leeann Kim

- Street Team Leader
- Promote film festival and related films through social events and interactions within the community.

VOLUNTEER

June-August 2008 **Student Volunteer at National Institutes of Health**
Bethesda, MD; Nurse Manager: Sue Johnson

- Administrative duties

- Support RSA(Research Support Assistant) and Nurses/PCTs
- **74** hours

November 2007

San Diego Asian-American Film Festival

San Diego, CA; Festival Director: Leeann Kim

- Co-manager of Blowfish Unplugged Music Showcase.
- Promoted teamwork amongst ethnically-diverse members
- Greeted artists, managed set-up, and supervised performances.

REFERENCES

Available upon request.