

Alexander M. Wolff

Education

Ph.D., Biophysics University of California, San Francisco Research Advisor: TBD Dissertation Title: TBD GPA NA	Expected 2020 San Francisco, California
M.S., Molecular Biology University of Wyoming Research Advisor: Dr. Mark Stayton Thesis Title: "Effects of Pericardiectomy, Exercise Training and Myocardial Infarction upon Left-Ventricular mRNA Steady-State Concentrations of Selected Biomarkers" GPA 4.0	May 2015 Laramie, WY
B.S. <i>cum laude</i> , Kinesiology & Health Promotion University of Wyoming GPA 3.96	May 2013 Laramie, WY

Publications

Under Review

Wolff, A.M.; Rasmussen, T.P.; Wichern, C.R.; Peterson, M.R.; Stayton, M.M.; & Thomas, D.P. "Effects of pericardiectomy on left ventricle hypertrophy and exercise performance."

Grants and Fellowships

- NIH T32 Research Fellow
University of California, San Francisco
- Fall 2015 (\$18,000)
 - ✓ Molecular Biophysics Training Grant
- Matilda Edlund Scholarship
University of California, San Francisco
- Fall 2015 (\$16,000)
 - ✓ Merit-based
 - ✓ 1 of 2 awarded to incoming graduate class at UCSF
- INBRE Undergraduate Research Fellowship
University of Wyoming
- Summer 2012 (\$3500)
 - Fall 2012 (\$700)
 - Spring 2013 (\$700)

- ✓ Designed a project and chose candidate genes to examine the effects of exercise after a myocardial infarction in a mouse model
- ✓ Wrote a paper summarizing my results and the experience I gained at the end of each award
- ✓ Attended the University of Wyoming Undergraduate Research Symposium to learn about ethics in scientific research

Research Skills

Extensive knowledge of lab techniques, including but not limited to:

- Sterile Technique
- RNA and DNA Isolation from Mammalian Tissue
- PCR Primer Design
- Quantitative PCR
- Molecular Cloning
- Protein Purification
- Column Chromatography
- Gel Electrophoresis (SDS-PAGE, 2-D, etc)
- Liposome Preparation
- Transmission Electron Microscopy
- Cryo Electron Microscopy
- Liquid Handling Robots
- Protein Crystallography
- X-ray Diffraction
- Structure Refinement
- Data Analysis
- Figure and Manuscript Preparation
- Programming
- Command line

Teaching Experience

Teaching Assistant, General Chemistry
University of Wyoming

Sep 2013-Dec 2013

- Supervised laboratory sections
- Lead discussion sections
- Wrote and proctored quizzes for discussion sections
- Proctored and graded exams
- Tutored students one-on-one during office hours & tutorial hours

Teaching Assistant, Human Anatomy
University of Wyoming

Jan 2012-Dec 2012

- Lead group discussions
- Proctored quizzes

Honors & Awards

- Outstanding Chemistry Teaching Assistant Award Apr 2014
- Trustee's Pride Scholarship Aug 2009-May 2013
- Hathaway Honors Scholarship Aug 2009-May 2013
- President's Honor Roll (5 times)
- Provost's Honor Roll (2 times)
- Dean's Honor Roll
- Gained leadership experience as a People to People Student Ambassador Jul 2006

Conferences & Presentations

Wolff, A.M.; Thomas, D.P.; & Stayton, M.M. "Effects of Aerobic Training on Gene Expression in the Heart after a Myocardial Infarction." Oral and Poster Presentations at University of Wyoming's Undergraduate Research Days, Laramie, WY. April 27, 2013.

Occupation

Laboratory Technician, Fay Lab
University of Wyoming

Mar 2013-Sep 2013

- Prepared media for bacteria & *C. elegans*
- Used autoclave to sterilize equipment and media
- Prepared buffers and solutions

References

Available upon request