Alexander Steil

1950 Trenton St, Apt. T411 – Denver, CO 80220 <u>awesleysteil@gmail.com</u> – (608)-341-9897

Education

Bachelor of Science Cell and Molecular Biology Major, Chemistry Minor University of Wisconsin – La Crosse	2014 - 2018
Research Experience	
Professional Research Assistant – Jagannathan Lab CU Anschutz Medical Campus	2019 - present
Undergraduate Research Assistant – Klein Lab University of Wisconsin - La Crosse	2016 - 2019
 Used CRISPR/Cas9 to study site-specific oxidation in mammalian myoblasts Successfully developed mutant cell line C2C12 CALM1 M109Q M to Q mutation sterically mimics an oxidized M109 in Calmodulin Designed gRNA, donor DNA, and primers for PCR screening of mutants Performed cell proliferation and morphology assays to characterize mutant phenotype Utilized immunofluorescent microscopy and western blotting to understand protein localization and expression in mutant cells Designed plasmids and drug treatments to rescue mutant phenotype 	
UWL Frey Fund for Scientific Entrepreneurship	2017, 2018
UWL Undergraduate Research and Creativity Grant Site-specific oxidation of Calmodulin as a mechanism of muscle degeneration	2018
UWL Undergraduate Research and Creativity Grant CRISPR mediated investigation of Calmodulin oxidation	2017
Presentations	
Medical College of Wisconsin Redox Biology Symposium Poster: Site-specific redox regulation of myogenesis. Alex Steil and Jennifer Klein Ph.D. (2018)	2018
Midwest Regional Biophysical Society Symposium Poster: CRISPR-mediated oxidation of CaM M109 to CaM M109Q. Alex Steil, Brandon Harris, and Jennifer Klein Ph.D. (2017)	2017