

Scientific Research Bucky

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Education

University of Wisconsin-Madison, May 2018

Major: B.S. in Molecular Biology with Certificates (minors) in German, Global Health, and Leadership

Cumulative GPA: 3.45/4.0, Dean's List (2 semesters)

Successful Completion of the BioCore Honors Biology Curriculum

Relevant Coursework

- Cellular Biology (Lecture + Lab)
- Introduction to Animal Development (Lecture)
- Introduction to Biochemistry (Lecture)
- Biochemical Principles of Human and Animal Nutrition (Lecture)

Laboratory and Research Experience

University of Wisconsin-Madison Department of Biochemistry- Sussman Lab (May 2016-May 2017)

Undergraduate Researcher- Root inhibition biochemistry under Dr. Miyoshi Haruta

- Used ImageJ software to measure root lengths of *A. thaliana* seedlings following treatment with R9AHA2 protein solutions via root growth assay
- Prepared stock dilutions and agar solution plates to assist other

Coursework: BioCore Honors Curriculum Cellular Biology Lab (Jan 2016-May 2016)

- Analyzed hydrolytic activity of bovine intestinal alkaline phosphatase via spectrophotometry and Michaelis-Menton calculations following exposure to β -mercaptoethanol
- Used green fluorescent protein reporter assays to analyze heat stress of *C. elegans* following treatment with bisphenol-A
- Performed β -galactosidase assays, morphogenesis assays, and western blots to analyze the changes in the mating response pathways of *S. cerevisiae* when exposed to mutated alpha factor pheromones

Heart Care Center of Illinois: Office of Dr. Peter Kakavas, MD (May 2015-Aug 2015)

Clinical Research Coordinator Assistant- Stage III Clinical Trials on Pfizer's studies of PCSK9 inhibitors

- Managed written and electronic records of patient

Relevant Campus Involvement

University of Wisconsin-Madison Division of Housing (Sep 2015-Present)

Chemistry Tutor

- Served as a mentor to assist undergraduate students in furthering their understanding of introductory general and organic chemistry

Students Participating in Chemical Education (SPICE) (Oct 2014-Present)

Member, Treasurer

- Adhered to written protocols to perform chemical demonstration shows to educate children about basic chemistry principles
- Collaborated with other members to maintain and organize chemical and equipment stocks