

Betsy Biology

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EDUCATION

Saint Joseph's University
Bachelor of Science in Biology
Dean's List: Fall 2014-Present

Philadelphia, PA
May 2019

LABORATORY SKILLS

- Cell Culture
- Western Blot
- Northern Blot
- Plasmid and siRNA transfection
- Virus Infections and Maintenance
- Fluorescent Microscopy
- Protein Harvest and Quantification
- DNA/RNA Extraction and Purification
- Bacterial Transformation

INTERNSHIP EXPERIENCE

Biodiversity Laboratory, Saint Joseph's University
Laboratory Assistant

Philadelphia, PA
January 2017 – Present

- Provide care for a variety of species including fish and turtles and catalog life history traits, such as feeding patterns, reproductive behavior, and growth rate of animals
- Maintain a healthy environment for the animals by monitoring behaviors, checking water levels, cleaning tanks and filters, and keeping track of feeding schedules

Eurofins QC, Inc.
Laboratory Technician

Horsham, PA
August 2016 – January 2017

- Adhered to all pertinent health, safety, and environmental regulations
- Cultured biological organisms for research purposes
- Prepared solutions used in the daily testing of designated samples
- Recorded work performed on a daily basis or as needed for quality control tests

RESEARCH EXPERIENCE

Lankenau Medical Center
Undergraduate Research Associate

Wynnewood, PA
May 2017-August 2017

- Researched Protein X Regulation of Protein Y localization for antiviral innate immunity
- Advanced and implemented strategy to address research question in collaboration with graduate supervisor
- Optimized project-specific protocols for qRT-PCR, PCR, siRNA Knockouts, Western Blots, Luciferase Assays, Immunofluorescence, and Microscopy
- Compiled and analyzed all data output in STATA to evaluate significance of experimental results
- Developed comprehensive lab reports summarizing protocol and findings to support future research

Summer Scholar, Saint Joseph's University
Undergraduate Researcher

Philadelphia, PA
May 2016-August 2016

- Discovered a cost-effective water filtration system capable of removing biological hazards such as arsenic and bacteria from drinking water
- Presented findings at a seminar series, in front of colleagues and faculty members