

Christopher Olivier

16 Ambler Way Durham, NH 03824 • (603) 834-2461 • cmolivier94@gmail.com

Education

University of New Hampshire, Durham, NH

May 2016

Bachelor of Science, Biochemistry

GPA 3.5

Dean's Scholarship

Relevant Coursework

Cell Culture, Eukaryotic and Cellular Developmental Biology, Laboratory of Molecular Biology of Nucleic Acids, Protein Structure and Function, Biochemistry of Cancer, Principles of Genetics and Molecular Genetics, General Microbiology with lab.

Research Experience

Department of Biochemistry and Molecular and Cellular Biology

Jan, 2015- May 2016

Undergraduate Researcher

Expression and purification of human cone PDE6 GAF constructs:

Research was done on the effector protein found in the vertebrate visual signaling pathway that may be linked to certain eye diseases. Responsibilities included recombinantly expressing the target protein and isolating it for biochemical analysis.

Skills Used: PCR, recombinant expression, DNA isolation, Gel filtration chromatography, Affinity chromatography, cGMP assays, Bradford assays, gel electrophoresis

Intensive Cell Culture Course

09/2015-12/2015

A CHO cell line was maintained for the entire semester to be used in future experiments such as: karyotyping, cloning, cytotoxicity testing, serum testing, and growth curves. Primaries and embryonic cells were cultured using mice embryos.

Laboratory Skills

Cell Culture- passaging cell lines, cloning, cryopreservation, cell enumeration and viability determinations, serum testing, stem cell growth and differentiation, primary cultures, organ cultures, in vitro cytotoxicity testing, growth curves, plant culture.

Molecular Biology- PCR, DNA isolation, recombinant plasmid expression, affinity chromatography, agarose gel electrophoresis

General Laboratory Skills- buffer and solution preparations, DNA extractions, light microscopy, phase contrast microscopy, centrifugation, aseptic technique

Computer- Microsoft Word, Excel, Photoshop, snap gene, adobe photoshop

Work Experience

Chemistry Tutor, *Alpha Chi Sigma Mu Chapter, Durham, NH*

9/2014-present

- Provide drop in tutoring for General Chemistry Students

Peer Led Team Learning Coordinator, General Chemistry

9/2013-present

UNH Chemistry Department, Durham, NH

- Head coordinator for a program that uses peers to engage students in General Chemistry with problem solving by illustrating thought processes
- Facilitate and lead a group of 8-10 General Chemistry students
- Managed scheduling of leaders as well as students times for groups
- Facilitate training exercises including, inclusivity, behavior management, and communication strategies for new leaders

Additional Experience

Global Medical Brigades Volunteer, *Honduras*

05/2016

Operations Supervisor/Zamboni Driver, *Whittemore Arena, Durham, NH*

2/2013-present

Publications, Presentations

Presenter at the University of New Hampshire Undergraduate Research Conference

4/2016

Expression and purification of human cone PDE6 GAF constructs

- Work focused on isolating a recombinant expressed protein from a bacterial cell culture. The ultimate goal was to produce a construct that was soluble and functionally active in order to use for further biochemical testing.