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# KIMBERLY CALLAHAN

(908) 907-2186

kimberly.callahan@ucdenver.edu

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## EDUCATION

### **University of Colorado Anschutz Medical Campus, Aurora, CO**

PhD Candidate in Molecular Biology, 2018 - Present

### **Rochester Institute of Technology, Rochester, NY**

Bachelor of Science in Biotechnology and Molecular Bioscience, 2017

GPA: 3.97 out of 4.00

## RESEARCH EXPERIENCE

### **SUMMER UNDERGRADUATE RESEARCH EXPERIENCE – JUNE - AUGUST 2017**

#### **University of Mississippi Medical Center, Jackson, MS**

Research Advisor: Dr. Bradley Walters

Project Title: Histone phosphorylation events in the developing mouse inner ear

Research: Epigenetic analyses of seven phosphorylated histones in the inner ear of wild-type mice and their relationship to the development and maturation of the inner ear.

### **RESEARCH EXPERIENCE FOR UNDERGRADUATES – JUNE - AUGUST 2016**

#### **Mount Desert Island Biological Laboratory, Bar Harbor, ME**

Research Advisor: Dr. Voot Yin

Project Title: PTP1B regulates adult zebrafish heart regeneration

Research: A genetic analysis of protein tyrosine phosphatase 1B (PTP1B) and its role in the regenerative process of adult zebrafish heart tissue.

### **UNDERGRADUATE RESEARCH – FALL - SPRING 2015**

#### **Rochester Institute of Technology, Rochester, NY**

Research Advisor: Dr. Jeffrey Lodge

Project Title: Spent coffee grounds as a viable feedstock for biofuel production

Research: Analysis of lipids extracted from spent coffee grounds to determine their viability as a component of biofuel, heating oil, soap, and fertilizer.

## HONORS AND ACHIEVEMENTS

- ❖ Outstanding Undergraduate Scholar Nominee, 2015, 2016

- ❖ Nathaniel Rochester Society Scholarship recipient, 2014-2016
- ❖ RIT Presidential Scholar, 2013-present

## PRESENTATIONS

University of Mississippi Medical Center Summer Symposium, Poster Presentation, August 2017

Callahan KN, Walters BJ. "Histone phosphorylation events in the developing mouse inner ear."

MDI Biological Laboratory Summer Symposium, Oral Presentation, August 2016

Callahan KN, Yin V. "PTP1B regulates adult zebrafish heart regeneration."

*Won 'Best Oral Presentation' award*

Rochester Academy of Science Fall Scientific Paper Day, Poster Presentation, November 2015

Alrobaie S, Callahan KN, Zara F, Lodge J. "Spent coffee grounds as a viable feedstock for biofuel production and usable byproducts."

## TEACHING EXPERIENCE

**Rochester institute of technology** Fall 2016 - Fall 2017  
Undergraduate Teaching Experience, Organic Chemistry (CHMO-301)

Attended weekly meetings with Organic Chemistry professor to review workshops containing practice problems for Organic Chemistry students. Spent one additional day per week holding a workshop for the students to help them understand the concepts presented.

**Rochester institute of technology** Spring 2017  
Cellular and Molecular Biology Lab Teaching Assistant (BIOL-301)

Attended weekly lab sessions of a Cellular and Molecular Biology class to assist the professor in running the lab.

## ACTIVITIES

### **WOMEN IN SCIENCE VOLUNTEER – 2016 - 2017**

**Rochester Institute of Technology**

Overall, helped to promote women in the fields of science, mathematics, engineering, and technology.

- ❖ Helped lead a workshop to promote STEM activities for Girl Scout leaders
- ❖ Took part in hosting a biology 'crime scene' activity at the Girl Scouts of Western New York's STEM-a-palooza
- ❖ Assisted in running a table at RIT's Women in STEM fair, teaching attendees about the senses involved in perception of taste

### **PRESIDENT, DUMBLEDORE'S ARMY AT RIT – APRIL 2014 - MAY 2017**

#### **Rochester Institute of Technology**

Dumbledore's Army at RIT is a branch of the national charity organization, the Harry Potter Alliance. We garner enthusiasm for the Harry Potter franchise to fuel charity events.

### **FAMILY SCIENCE NIGHT VOLUNTEER – JULY 2016**

#### **Mount Desert Island Biological Laboratory**

- ❖ Helped prepare an activity to teach young children about zebrafish and regeneration

### **CLASSROOM VOLUNTEER, EVOLUTIONARY BIOLOGY – OCTOBER 2015**

#### **Rochester Institute of Technology**

- ❖ Collected blue-spotted salamander tail snips to contribute samples to professor's research