

## Aubrey G. Jackson, B.A.

### EDUCATION

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**University of Colorado Boulder, Boulder, CO** *December 2012*  
B.A. Molecular, Cellular and Developmental Biology and Integrative Physiology

### EXPERIENCE

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**ChemaTox Laboratory, Inc.** *June 2016 - June 2018*  
Forensic Toxicology Analyst

- Perform ELISA (Enzyme Linked Immunosorbent Assay) screens on all incoming samples for a variety of drugs and/or their metabolites to determine which need further testing
- Analyze results of ELISAs to ensure that outcomes can be justified in court
- Prepare standards, controls and additional reagents for all drug screens

**University of Colorado, Anschutz Medical Campus** *May 2015 - March 2016*  
Laboratory Technician I

- Designed and completed an experiment with CR2  $+/+$  and  $-/-$  mice to find differences in regulatory B cell populations after exposure to an antigen.
- Drew blood from human subjects and then purified peripheral blood mononuclear cells.
- Extracted B cells for in vitro processing to investigate the roles of CR1 and CR2 in metabolizing complement protein and its subunits.
- Purified B cell RNA and characterized a long non-coding RNA thought to influence CR1 expression levels.
- Responsible for lab maintenance including ordering supplies and reagents and equipment maintenance.

**University of Colorado, Boulder** *August 2010 - December 2014*  
Teaching Assistant

- Primary instructor for lab sections of MCDB 1151 Introduction to Molecular Biology and MCDB 2151 Principles of Genetics.
- Assisted with associated lecture courses (MCDB 1150 and MCDB 2150) by holding office hours, engaging students during class discussions, and proctoring and grading exams. Assisted students with Water Microbiome Project: students isolated DNA from water samples, performed cloning and PCR on 16S rRNA, and sent the clones for sequencing.
- Helped students analyze sequencing results using BLAST and Explicet.

**University of Colorado, Boulder** *February - May 2013*  
Laboratory Technician I

- Assisted senior scientist Dr. Mingxue Cui with experimental revisions demonstrating the tumor suppressor Rb regulates starvation-induced stress response in *C. elegans* (75% of job).

- Maintained lab by cleaning equipment, making stock solutions, and ordering reagents (25% of job).
- Re-organized the liquid nitrogen and -80°C freezer stocks in a simplified database.

**University of Colorado, Boulder***May - October 2012*

IGEM Team Member

- Designed an E. coli construct with the goal of inhibiting quorum signaling induced biofilm formation.
- Assembled a quorum molecule detection and inhibition system.
- Demonstrated the usefulness of the bacteria *Vibrio fischerii* as a model system for testing quorum degradation constructs.
- Designed and built the 2012 CU Boulder IGEM website.

**PUBLICATIONS****Quorum Sensing and Inhibition (poster)***2012*

IGEM Competition, Stanford University, Presentation and Poster  
Aubrey Jackson; Max Jacobs; Jake Sheppard; Sean Kalra; Simon Greenberg

**CONTINUING EDUCATION**

**Summation of AAA study “An Evaluation of Data from Drivers Arrested for Driving Under the Influence in Relation to Per se Limits for Cannabis”** *August 15<sup>th</sup> 2016*

Presented by Barry K. Logan, Ph.D., F-ABFT