

Kelleen McEntee
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EDUCATION

University of Colorado, Boulder (GPA: 3.4)

B.A. Biochemistry 2019-2023

B.A. Molecular, Cellular, and Developmental Biology 2019-2023

WORK EXPERIENCE

Professional Research Assistant, August 2023-Present

CU Anschutz, Aurora CO

- Researching RNA therapeutics for haploinsufficiencies
- PI's: Sujatha Jagannathan, Jay Hesselberth

Analytical Chemistry Intern, September 2022-December 2022

Editas Medicine, Boulder CO

- Developed novel enzymatic assays to test enzyme variants
- Maintained an electronic notebook using Benchling
- Collaborated with a mentor and others to discuss next steps
- Presented findings and future directions

Research Volunteer, June 2020-August 2020

Zinnanti Institute of Neuroscience, Santa Cruz, CA

- Compiled research articles related to various research projects
- Assisted testing of new analytical chemistry supplies to streamline COVID testing
- Independently researched software options for analytical equipment
- Discussed test results and research with the lead researcher

Front Desk Clerk, June 2021-October 2021

Hotel Boulderado, Boulder, CO

- Trained new clerks to use Maestro PMS hospitality software
- Compiled local activities and restaurant recommendations for guests
- Maintained an organized and clean front desk area to streamline the check-in process
- Communicated with guests to book reservations

RELEVANT COURSEWORK

Synthetic Biology Lab, January 2023-May 2023

University of Colorado Boulder, Boulder CO

- Coordinated with others to build the plasmids required to produce human collagen in soybeans
- Designed a plasmid containing an essential enzyme for collagen synthesis
- Presented research poster at the Spring 2023 virtual CURE Symposium

Cell Biology Lab, January 2022-May 2022

University of Colorado Boulder, Boulder CO

- Researched an unstudied gene in model organism *Tetrahymena thermophila* for potential involvement in DNA repair pathways
- Designed gene-specific primers using Benchling software
- Synthesized cDNA from RNA extracted *T.thermophila* cultures
- Collaborated with lab partners to evaluate the gene's role in the DNA damage repair pathway using gel electrophoresis to visualize PCR results
- Presented research poster at the Spring 2022 virtual CURE Symposium

Discovery Lab, August 2021-December 2021

University of Colorado Boulder, Boulder CO

- Screened molecule libraries for novel antibiotics
- Researched the drug Mitomycin C for potential antimicrobial activity using a dose-response experiment and *Salmonella Typhimurium* as the model organism
- Discussed experiment results with lab partners to determine the next steps
- Presented research poster at the Fall 2021 virtual CURE Symposium

SKILLS

- Enzymatic Activity Assays
- Spectrophotometry
- Familiarity with PCR
- Familiarity with gel electrophoresis
- Familiarity with RNA extraction
- Benchling
- Microsoft office