

# PREMED CV SAMPLE

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## EDUCATION

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**Cedarville University**

*B.S. Molecular and Cellular Biology; GPA: 3.988*

Cedarville, OH

05/2021

## ACADEMIC EXPERIENCE

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**Cedarville University**

*Senior Capstone Project*

Cedarville, OH

2020-Present

- Compile data from laboratory and literature research to give an oral presentation on a select topic in biological studies.
- Evaluate cytidine deaminase toxin as a CRISPR-free method of mitochondrial DNA editing, which was compared and contrasted with a CRISPR/Cas9 based system.

*Teaching Assistant*

2020-Present

- Teach in the employ of one faculty member in the Department of Science and Mathematics.
- Grade weekly assignments for Cedarville University's Genetics and Botany classes. Assignments include formal and informal lab reports as well as handouts and student submissions. Provide feedback on components of graded projects. Correct misunderstanding of course content on graded assignments. Communicate with students regarding questions of grading and content.

*Laboratory Assistant*

2018–Present

- Work in the employ of one faculty member in the Department of Science and Mathematics.
- Coordinate with another assistant to accomplish weekly responsibilities for Cedarville University's Cell Biology class.

**Laboratory Set-up:** Prepare laboratory resources for student's weekly lab projects. Plan for necessary instrumentation and materials required to conduct lab procedures. Arrange and assemble resources for student usage.

**Assignment Grading:** Grade weekly assignments, including formal and informal lab reports as well as handouts and student submissions. Provide feedback on components of graded projects. Correct misunderstanding of course content on graded assignments. Communicate with students regarding questions of grading and content.

*Research Assistant*

01/2019–05/2019

- Worked with a small group of students, under faculty supervision, to characterize a netrin-4-like protein in *Tetrahymena thermophila*.
- Conducted a variety of experimental tests (many of which are indicated in lab skills section below). Findings indicated a possible structural role for the protein, as opposed to the developmental signaling role of netrins in vertebrates. Research also yielded unique sequence

data for a possible netrin receptor as well as an src-homolog, which will be the subject of future characterization.

- Prepared a poster project (DOI: [10.13140/RG.2.2.31847.50080](https://doi.org/10.13140/RG.2.2.31847.50080)) and gave an oral presentation at the annual Cedarville University Research Symposium.

## RELEVANT EXPERIENCE

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### **Cedarville University**

Cedarville, OH

#### *Independent Study of mitochondrial genetics*

06/2020-08/2020

- Investigated the concepts and basis of human mitochondrial genetics. Reviewed literature regarding the history of developments in the study of mitochondrial genetics. Prepared and planned to utilize this research in an upcoming senior capstone project.

### **University of Cincinnati**

Cincinnati, OH

#### *Research Assistant (offer rescinded due to COVID-19)*

Summer 2020

- Applied to perform biological research under the supervision of a member of the University of Cincinnati faculty. Up to 40 hours per week would have been dedicated to this position.

## LEADERSHIP EXPERIENCE

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### **Cedarville University**

Cedarville, OH

#### *President of Biology Club*

2020-Present

- Establish a vision for the organization, develop plans to accomplish our vision, and give direction to see plans implemented.
- Intermediate between club officers and our faculty sponsor in regard to planning and executing organization programs.

#### *Treasurer of Chemistry Club*

2020-Present

- Oversee finances and budget for overall club operation as well as individual events while working closely with fellow officers as well as the faculty sponsor for the organization.
- Plan and promote club events designed to build community among chemistry students while also providing resources for chemistry students to have collegiate success.

#### *Vice President of Biology Club*

2019–2020

- Served students majoring in biology by planning and coordinating events which provide professional development and networking opportunities while building campus community.
- Brainstormed and planned selected activities within a timely manner in cooperation with club officers.

#### *Chemistry Club Advisory Member*

2018–2020

- Was appointed to the position by faculty sponsor based on involvement in the organization.
- Provided advice and input to club officers in relation to activities and events.
- Led select activities such as chemistry demos and recruiting.

## LAB SKILLS & TECHNIQUES

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Gel Electrophoresis | SDS-PAGE | Western Blot | Immunoprecipitation | Native Gel Analysis | Hemocytometer Cell Quantification | Immunofluorescence | IR Spectroscopy | Carbon and Hydrogen NMR | Mass Spectroscopy | Size Exclusion Chromatography | Batch Chromatography | Ion Exchange Chromatography | DNA Electrophoresis with Restriction Enzymes | Gram Staining | Acid Fast Staining | Endospore Staining | Standard Plate Count Method | IMViC | Unknown Bacteria Determination | Urease Activity assay | Triple Sugar Iron Test |

## AWARDS AND HONORS

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### AWARDS

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|--|---------|
| <b>Department of Science and Mathematics Endowed Scholarship</b> | 07/2020 |
| <b>Presidential Excellence Scholarship</b>                       | 07/2017 |
| <b>President's Impact Scholarship</b>                            | 07/2017 |
| <b>One Campus Scholarship</b>                                    | 07/2017 |
| <b>Cedarville Excellence Award</b>                               | 07/2017 |

### HONORS

**Dean's Honors List (All Semesters)** 2017-Present

- This recognition required students to maintain a 3.75 GPA for the semester while taking a minimum of 12 credit hours.

**Cedarville University Honors Program** 2017-Present

- The Honors Program is designed to challenge gifted students to reach their academic potential through a specially designed course of study. Admission into the program for entering freshman is based upon ACT/SAT scores, extracurricular and work experience, and a sample of expository work. A limited number of students are admitted into the program each year.

**Kentucky Governor's Scholar Program Alumni** 2016-Present

- The Governor's Scholars Program is a summer residential program for outstanding high school students in Kentucky who are rising seniors. Selection for the program is highly competitive, admission requires an academic profile that includes difficulty of course load, GPA, and at least one standardized test score. Admission requires a service profile which includes an outline of all extracurricular activities, a history of volunteer service, and a list of job positions held. A teacher recommendation, community recommendation and original writing entry are required in the application process.

## ACTIVITIES

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**Tau Delta Kappa (Honors Society):** Member of honors-based student organization dedicated to leadership and service.

**Volunteer Physics Tutor:** Tutored one student, once weekly, in college physics class.

**Volunteer Calculus Tutor:** Tutored one student, once weekly, for a semester in Calculus and Dynamical Life Systems class.

**Volunteer at Governor’s Cup district competition:** Moderated events for the Kentucky Association of Academic Competition at annual district-level competition.

**Volunteer “College Coach”:** Mentored two high school students, advising on questions regarding college enrollment and logistics of higher education.

### **ADDITIONAL EXPERIENCE**

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**Showplace Garden Center**

Dry Ridge, KY

*Quality and Service Supervisor*

2017–Present

- Supervise daily co-worker tasks and train them on company protocol and software usage.
- Work with garden center manager to make plans for the responsibilities of myself and others.
- Maintain and organize entire greenhouse of plants, diagnosing various ailments regarding customer plants and determining appropriate treatment.

*Employee*

2015–2017

- Continued basic plant maintenance as well as additional responsibilities such as customer service and advanced plant maintenance (trimming and treatment for diseases/insects) under direction of manager.

*Junior Employee*

2013–2015

- Performed basic plant maintenance in daily watering, fertilizing, and planting under direction of manager and supervisors