

CALEB B SAWYER

Orem, Utah | 385-209-5482 | 10781573@uvu.edu

EDUCATION

Utah Valley University; Orem, UT

Bachelor in Science, Biotechnology and Biology

Expected May 2024

- GPA: 3.77

Utah Valley University; Orem, UT

Associate in Science, Biology

May 2022

- Dean's list

RESEARCH

UVU Virology lab

Researcher

May 2022 – January 2023

Sample collection and mechanical inoculation to test viral transmission mechanisms and host range; Degenerate primer detection and sequencing to detect 3 viral families and sequence 2 virus species

BYU Phage Labs

Intern

Aug 2015 – May 2016

Culturing of bacteria to prepare host inoculation followed by phage nucleic acid cloning for full sequencing preparation.

AWARDS

URSCA Grant - \$2399 - *Characterizing the Virome of Trifolium repens By Sequencing*

March 2023

DoTerra SAC Grant - DTRF07 - \$4925 - *Obtaining Full Viral Genomes for our Symptomatic plants*

March 2023

UVU SAC Grant - SHS008 - \$769 - *Effects of Ethanol Vapor on the Germination of Baudoinia compniacensis*

Aug 2022

UVU SAC Grant - SHS004 - \$1355 - *Developing Detection Assays for Indicator Plants in MICR 4505 Applied Virological Methods*

Aug 2022

Pell Grant - Needs based \$5500

2021 – 2023

MEMBERSHIPS

UVU Bioinformatics Club

Aug 2022 - Present

Member

- Participate in regular club meetings and activities
- Planning and hosting UVU's Darwin Day with Dr. Joseph Graves

PRESENTATIONS

Poster Presentations

- Sawyer CB; Nicole P; Denise J; Christine N. Whiskey Fungus: Germination of *B. compniacensis* With Ethanol Vapors **Dec 2022**
Utah Valley University Semi-Annual Poster Presentations; December 2022; Orem, UT.
- Sawyer CB; Mitchell M. SSRs and Microsatellites **Dec 2022**
Utah Valley University Semi-Annual Poster Presentations; December 2022; Orem, UT.
- Sawyer CB; The Unlucky Clover; viral detection assays in *T. repens* **Dec 2022**
Utah Valley University; December 2022; Orem, UT.

LANGUAGES

Spanish— speak, read, and write with basic competence

SKILLS

- DNA and RNA Extraction
- Western Blots
- Insect Identification and Curation
- R for Data Visualization and Statistics
- Mechanical Inoculation of Viruses
- Column Chromatography
- Insect Identification and Curation
- Nucleotide and Protein Sequence Alignments
- Bacterial Culturing
- Plaque Assays