

Sample Student

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Laboratory Skills

- Solution Preparation, Serial Dilutions, Molarity Calculations
- Genomic and plasmid DNA extraction and purification
- DNA and Protein Gel electrophoresis, Restriction Analysis
- Southern and western blotting
- Spectrophotometers, autoclaves, micro-pipettor
- Solution and growth media preparation
- Aseptic and sterile technique
- PCR, Real-Time (quantitative)
- Construction of Recombinant Plasmid DNA
- Conventional Transformation of E. coli and Bacterial transformation
- Cloning, and Vector Construction

Education

State University of New York at Cobleskill, Cobleskill, NY
Bachelor of Science, Biotechnology
Anticipated May 2021, GPA 3.2

Honors

Phi Theta Kappa National Honor Society, Inducted May 2019

Relevant Courses

Biochemistry	Organic Chemistry I & II
Microbiology	Biotechnology
Cell Biology	Theory and Methods of Biotechnology

Experience

Public Health Works Fellow Summer 2019
NYS Department of Health, Wadsworth Center Albany, NY

- Collaborated with supervisor to develop a protein based multiplex assay for the detection of staphylococcal enterotoxins and botulism toxin
- Began optimization of the assay with a goal of using it on clinical samples
- Observed other members of the lab during identification of clinical samples through cell culture as well as multiplexed real-time PCR methods

Laboratory Technician Summer 2018
Empire Cheese Cuba, NY

- Avoided contamination while taking aseptic samples for bacterial tests
- Followed instructions to prepare solutions for use in analytic tests
- Analyzed physical properties of cheese, whey, cream, and milk
- Maintained a daily log of activities, observations, and lessons learned

Activities

American Society for Biotechnology, Fall 2017 - present
SUNY Cobleskill Medical Career Club, Fall 2017 - present

Related Skills

- Ability to prepare a professional quality technical report
- Skilled in microscopic techniques, proper care and maintenance procedures
- Understands basic concepts of genetic engineering, bacterial transformation, screening, DNA isolation, DNA characterization, and genetic cloning
- Advanced knowledge of current applications in cell and molecular biology
- Experienced with sterile techniques of media preparation for tissue culture