

RYAN J. BURNS

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Education

Master of Science, Concentration in Molecular Biotechnology

Northeastern University, Boston, MA

Expected May 2024

Boston, MA - Master of Science in Biotechnology, Concentration in Molecular Biotechnology.

3.5 GPA.

- Completed coursework includes Cell Culture Processes for Biopharmaceutical Production, Biotech Enterprise, Foundations in Biotechnology, and Basic Biotechnology Lab Skills.
- Currently enrolled in Protein Chemistry, Cell & Molecular Biology for Biotechnology, Experimental Design and Biostatistics, and Professional Development for Co-op.

BA in Biotechnology and Molecular Biology

Assumption University, Worcester, MA

May 2022

3.2 cumulative GPA.

- Diverse relevant coursework including Cell & Molecular Biology, Genetics, Biochemistry, Organic Chemistry, Human Anatomy, Cancer Biology, Microbiology, and Biotechnology.
- Experience and deep understanding of DNA extraction, Polymerase chain reactions (PCR), Gel electrophoresis, Plasmid digestion, and experimental design obtained during capstone Biotechnology Theory and Practice class.
- Experience with aseptic technique, bacterial culturing techniques, and other microbiological procedures.
- Recruited athlete and 2-year team captain of the Assumption University Men's Indoor & Outdoor Track & Field Team. Varsity shotput, discus, and hammer thrower.
- Men's Track and Field Representative for the Student Athlete Advisory Committee.

Experience

Laboratory Technician (Contract)

October 2022 - January 2023

Kula Bio, Natick, MA

- Managed laboratory operations including sterile media preparation, 3.5% agar plate preparation, biowaste management, bacterial colony counting to maximize efficiency of laboratory operations.
- Gaining vital work experience in biotechnology industry while completing first semester of graduate school.

Quality Control Intern

June 2021 - August 2022

Cambridge Isotopes Laboratories, Andover, MA

- Executed diagnostic techniques such as Karl Fischer titrations, pH analysis, AgNO₃ analysis, Phosgene analysis, and appearance testing to ensure quality and safety of research products before sale.
- Responsible for daily qualification of Karl Fischer titration machine to ensure effective operation within 9950-10050ppm.
- Received training and experience working in a current good manufacturing practices (cGMP) environment.

Research Fellow

April 2021 - September 2021

Assumption University, Worcester, MA

- Conducted a literature-based research project during summer leading up to senior year.
- Investigated the role cytokines, growth factors, and other immune cells played in the tumor microenvironment of pregnancy-associated breast cancer, and how activity can lead to tumor malignancies.
- Designed experiments for subsequent research, and presented findings at Summer Research symposium.

Skills

- Molecular Biology Techniques, including PCR, Gel Electrophoresis, and DNA Extraction.
- Microbiological techniques.
- Soft Laboratory Skills.
- Task efficiency and time management.
- Microsoft Office proficiency.
- Leadership and interpersonal skills.