

Regina A. May

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Research Technique Proficiency

Molecular Biology: Purification (AKTA, FPLC, and HPLC), digestion, and cloning of plasmids, bacterial transformation, protein expression by bacterial fermentation, and cell culture

Protein Characterization: SDS Page, UV/Vis spectroscopy, enzyme activity assays, circular dichroism, differential scanning fluorimetry, and NMR spectroscopy

Protein-Protein Interactions: Alpha-rep protein scaffolds, phage display, Western blot, Dot blot, and ELISA clonal

Technical Audits: ISO 9001 and ISO 14001

General: Validation Protocol, Good Manufacturing Practices (cGMP)

Education

Master of Science in Biomolecular Science

May 2023

Central Connecticut State University, New Britain, CT
GPA: 3.5/4

Bachelor of Science in Biology, Minor: Psychology

2018

Eastern Connecticut State University, Willimantic, CT

Selected Achievements

- Cross-functional team leader with laboratory driving teams in the justification of process deviations, investigation, and authoring of scientific and technical explanations
- Obtained the first NMR spectra of the purified protein and set up a long-term project for continuation of the structural characterization of large multi-domain nitric oxide synthase (NOS) enzyme as a laboratory intern
- Contributed to process improvement through constant observation, analysis, and recommendations on optimization of the peptide lyophilization process

Relevant Experience

Current Employer or Internship, City, St

August 2020 - Present

Position Title

- Collect and analyze biological data about relationships among and between organisms and their environment
- Identify, classify, and study structure, behavior, ecology, physiology, nutrition, culture, and distribution of plant and animal species

Current Employer or Internship, City, St

August 2018 - August 2020

Position Title

- Studied basic principles of plant and animal life, such as origin, relationship, development, anatomy, and function
- Programmed and used computers to store, process, and analyze data