

ABIRAMY RAMESH GOUPTA

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EDUCATION

Northeastern University, Boston, MA

Sep 2022 - Sep 2024

Master of Science in Biotechnology

3.59 CGPA

Coursework: Cutting-edge applications in Biotechnology, Cell Culture Processes, Molecular Cell Biology, Protein Chemistry

SRM Institute of Science and Technology, Chennai, India

Jun 2018 - May 2022

Bachelor of Technology in Biotechnology

3.49 CGPA

Coursework: Vaccine Biotechnology, Gene Manipulation and Genomics, Medical Nanotechnology

WORK EXPERIENCE

Boehringer Ingelheim, Ridgefield, CT, USA

Jan 2024 – Jun 2024

Viral Platforms-DMPK Co-op- Virology, Immunology and Pharmacokinetics

- Conducted and optimized MSD assays for screening B cell culture supernatants and recombinantly expressed monoclonal antibodies.
- Demonstrated strong troubleshooting skills to resolve experimental issues, enhancing my understanding of immunoassay development.
- Performed MSD assays for isotyping antigen-specific antibodies in human serum samples and utilized ELISA for anti-viral antibody characterization.
- Acquired knowledge of antibody-antigen binding specificity and competitive inhibition assays, optimizing assay parameters for testing human serum samples.

SunnyLand- Northeastern University, Boston, MA, USA

Aug 2023 - Dec 2023

Research Assistant- Protein Chemistry

- Applied protein mass spectrometry techniques for analyzing and optimizing protein-drug conjugates.
- Conducted HPLC analyses to determine compound purity and resolved associated troubleshooting issues.
- Performed cell toxicity studies to evaluate the efficacy of protein-drug conjugates.
- Collaborated with research teams on experimental design and developed novel strategies for protein-drug conjugates.

TB and Chest Clinic, Puducherry, India

Jul 2021 - Aug 2021

Molecular Biology Intern

- Conducted sputum sample collection and preservation for tuberculosis diagnosis
- Performed DNA extraction, staining, and Line Probe Assay (LPA) for M. tuberculosis identification
- Gained experience in a range of diagnostic techniques, including drug susceptibility testing, CB-NAAT, liquid culture preparation, Master Mix preparation, hybridization, and RT-PCR, for rapid tuberculosis detection

SKILLS

- **Laboratory-** Biochemical Assays, Indirect ELISA, MSD-ECL, Competition MSD, LS/MS, SDS-PAGE, Western Blotting, HPLC, qPCR, RT-PCR, LPA, DNA Extraction and Staining, Cell proliferation assay, Cell toxicity assay, Mammalian Cell Culture, NMR, Nanodrop
- **Technical-** GraphPad Prism, JMP Suite, Java, MySQL, AutoCAD, MS Office, ELNs (IDBS, Benchling)

ACADEMIC PROJECTS

Studies on the activity of Phloretin loaded nanocomposite in *invitro* wound healing, SRM

Jan 2022 - May 2022

- Conducted in vitro laboratory experiments to test the efficacy of phloretin, sericin, and chitosan in healing wounds in cell lines

Phytochemical Analysis of Bioactive Compounds from Vegetable Wastes, SRM

Jun 2021 - Nov 2021

- Extracted phytochemicals and phytonutrients from vegetable waste such as peels, seeds, pomace, and leaves to conduct research on the natural antioxidants, antiviral, anticancer, and essential fatty acid properties

VOLUNTEERING EXPERIENCE

Fundraiser

Apr 2021 - Jun 2021

- Collaborated with two NGOs, Muskurahat Foundation and YEF (Youth Empowerment Foundation)