Syeda Madiha

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Career Objective

B.Sc. Microbiology & Chemistry graduate with strong foundations in molecular biology, PCR workflows, DNA/RNA extraction, and analytical chemistry, complemented by bioinformatics and computational analysis. Skilled in SDS-PAGE, ELISA, microbial QC, and wet-lab assays, with experience in literature search, data analysis, and scientific documentation. Eager to apply my molecular biology and computational biology skills as a Research Associate in Antibody Engineering at Aurigene Oncology, contributing to cancer research through experimental excellence and continuous learning.

Education

Mount Carmel College, Bangalore — B.Sc. Microbiology & Chemistry | 2021–2024 | CGPA: 7.5

Presidency College — PCMB | 2021 | 9.6

Vasavi Vidya Samaste — 10th Grade | 2019 | 9.1

Relevant Experience

Dextrose Pvt. Ltd., Bangalore — Intern (Analytical Chemistry & Microbiology) | 2023

• Performed DNA/RNA extraction, PCR, gel electrophoresis, ELISA, and SDS-PAGE under GLP-style practices.

• Assisted in microbial QC, enzyme-based assays, and spectrophotometry.

• Gained exposure to cloning workflows, competent cell preparation, and transformation basics.

• Documented results in structured formats for compliance and reproducibility.

Bioinformatics & Cheminformatics Internship (Remote) | Nov 2024 – July 2025

• Applied bioinformatics tools to study protein–ligand interactions relevant to therapeutic research.

• Conducted extensive literature searches and prepared scientific reports for project deliverables.

• Used Bash, Python, and R for data processing, variant analysis, and multi-omics integration.

Content Writer — PAIGAM (Volunteering) | 2025

• Developed biomedical awareness content, simplifying complex research for broader audiences.

• Improved skills in scientific communication and patient-centric documentation.

Key Projects

• AI-Driven Multi-Omics Analysis of TP53 Mutations in Cancer (2025) – Used Python, R, and Bash to process omics datasets and summarize findings into structured reports.

• In-silico Drug Discovery Against Mpox Virus (2024) – Conducted protein-ligand docking, cheminformatics screening, and literature-supported reporting.

• Metagenomics Pipeline Development (2024) – Built workflows to analyze microbial communities and metabolic pathways.

Skills

Molecular Biology: DNA/RNA extraction, PCR (touch-down, gradient, real-time), gel electrophoresis, ELISA, SDS-PAGE.

Cloning & Cell Work: Competent cell preparation, transformation (chemical/electroporation), basics of subcloning and assembly methods.

Bioinformatics & Computational: Python, R, Bash scripting, NGS analysis, cheminformatics databases (PubChem, KEGG, ChEMBL).

Analytical Chemistry: Chromatography, spectrophotometry, enzyme assays, QC practices.

Documentation: Literature search, regulatory-style reporting, scientific writing, data presentation.

Certifications

• Analytical Chemistry & Industrial Microbiology – Dextrose Pvt. Ltd.

• Bioinformatics & Omics 2.0 – Bversity, 2025

• Metagenomics – Mediomix, 2024

• Clinical Research & Regulatory Affairs (Short Courses)

• MATLAB – MathWorks

• Nanobiomedicine – Learntoupgrade

Additional Information

• Strong willingness to learn advanced cloning and antibody engineering techniques (Gibson assembly, Golden Gate, Gateway, In-Fusion).

• Languages: English, Hindi, Kannada, Urdu.

• Location: Bangalore-based, available for immediate joining.