

PROFILE

I am an experienced laboratory technician with a strong background in working within regulated environments and ensuring adherence to quality control standards. I have developed expertise in performing lab testing with precision and attention to detail. My experience includes operating lab equipment, performing routine analyses, and maintaining a safe and organized working environment. I am adaptable, quick to learn, and thrive in team-based environments, ensuring all tasks are completed efficiently and in compliance with relevant regulations and protocols.

SKILLS & ABILITIES

- Mammalian Cell Culture
- Spectrophotometry
- GMP Lab
- Western-Blot
- Lab Equipment Handling & Calibration
- Sample Preparation
- Immunostaining
- ELISA
- Aseptic Techniques
- PCR and AGE
- DNA Extraction
- Assay Development

EXPERIENCE

Research Assistant | Manchester Metropolitan University | Jan 2023 – Sep 2023

- Conducted research on extracellular matrix regulation in liver fibrosis, specifically investigating the role of EMILIN-1 in hepatic stellate cells.
 - Designed and executed experiments to study **EMILIN-1 protein expression** in LX-2 cells, using A375 and SHSY5Y cell lines as positive controls.
 - Performed **Western Blot, ELISA, and immunostaining** to detect EMILIN-1 and validate its role in fibrosis progression
 - Operated **liquid handling robotic equipment (Cell Washer, Multidrop Dispenser, Centrifuge)** to streamline workflows and increase experimental efficiency.
 - Adapted quickly to **new techniques**, troubleshooting **PH meter** and refining **antibody concentrations for immunostaining** to enhance signal clarity.
 - Maintained **meticulous documentation** of all experimental procedures and data analysis, ensuring reproducibility and integrity of research findings.
 - Worked closely with a research team, demonstrating **collaboration, adaptability, and attention to detail** in a laboratory setting.
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Research Assistant | Centre for Bioscience and Nanoscience Research | Jan 2021 – Nov 2021

- **Sample Preparation & DNA Extraction:** Performed high-precision **sample preparation and bacterial DNA extraction**, achieving a **95% success rate** in DNA retrieval, ensuring consistency in molecular assays, and managed stocks for daily work flow
 - **Quality Control in Antibiotic Testing:** Conducted **antibiotic sensitivity testing** on *E. coli* and *Bacillus subtilis*, identifying **optimal treatments** through standardized protocols, contributing to antimicrobial resistance research.
 - **Assay Development & Performance Testing:** Optimized **ELISA assays** for antibody detection, achieving **90% accuracy** via **spectrophotometric analysis**, ensuring **reproducibility and precision** in results.
 - **GMP & Compliance:** Maintained strict **aseptic techniques** and adhered to **SOPs** to prevent contamination in microbial cultures, aligning with **quality control** standards in regulated environments.
 - **Lab Maintenance & Teamwork:** Managed routine **lab maintenance, equipment calibration, and inventory control**, ensuring smooth daily operations. Collaborated with researchers to maintain workflow efficiency.
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EDUCATION

Master of Science in Biomedical Science | Manchester Metropolitan University | October 2023

Bachelor of Engineering in Biomedical Engineering | Anna University | July 2021

CERTIFICATIONS

U.N.I.Q Technologies- MATLAB Programming- 2022.

U.N.I.Q Technologies- Finger print recognition using image processing (Project) - 2022.