

PROFILE

Biomedical Science MSc graduate with hands-on experience in molecular biology, **Cell Culture**, and laboratory techniques. Proficient in **PCR, ELISA, Western-Blot, and aseptic techniques**, with a strong understanding of laboratory safety and quality control. Experienced in **sample preparation, equipment maintenance, and data analysis**. A **detail-oriented and adaptable team player**, eager to contribute to a fast-paced laboratory environment. Passionate about learning new techniques and supporting research and clinical workflows effectively. **Immediately available to join.**

SKILLS & ABILITIES

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|--------------------------------------|---------------------|------------------|-----------------------|
| • Mammalian Cell Culture | • Cell Revival | • GMP Lab | • Western-Blot |
| • Equipment Handling and Calibration | • Media Preparation | • Immunostaining | • ELISA |
| • Aseptic Techniques | • PCR and AGE | • DNA Extraction | • Attention to detail |

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.
 - Optimized **cell culture protocols**, ensuring high **cell viability and reproducibility** for fibrosis-related assays.
 - Revived and maintained **mammalian cell cultures (LX-2, A375, SHSY5Y)** with aseptic techniques and regular subculturing.
 - 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

- Performed **sample preparation and bacterial DNA extraction**, achieving a **95% success rate** in DNA retrieval.
 - Conducted **antibiotic sensitivity testing** on *E. coli* and *Bacillus subtilis*, identifying effective treatments.
 - Utilised **ELISA for antibody detection** ensuring 90% accuracy through spectrophotometric analysis.
 - Assisted in routine **lab maintenance, equipment cleaning, and inventory management** to support daily research operations.
 - Followed **strict aseptic techniques** to prevent contamination in microbial cultures.
 - Collaborated with lab members to support ongoing research projects, ensuring smooth workflow and task distribution.
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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.