

SAWMIYA RAVICHANDRAN

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PERSONAL PROFILE

A highly motivated and detail-oriented Biomedical Science graduate with a Distinction in MSc Microbiology from Teesside University, I offer strong technical knowledge and proven clinical laboratory experience. I am passionate about patient care and supporting diagnostic teams to deliver safe, accurate, and timely results. I bring extensive hands-on skills in specimen processing, molecular techniques, data entry, and adherence to SOPs and health and safety regulations. I align values of Compassion, Openness, and Excellence and am committed to making a meaningful contribution to the D Pathology Service within the NHS.

EDUCATION

- 01/2023-01/2025 **MSc in Microbiology (Distinction), United Kingdom, Teesside University**
- Pathobiology of Infectious Diseases
 - Clinical Biochemistry and Diagnostic Techniques
 - Fermentation Microbiology
 - Analytical Techniques
 - Genomics and Bioinformatics
 - Microbial Diversity and Environmental Microbiology
 - **Project:** Isolation and characterization of bacteriophages in the environmental soil samples.
- 01/2020-09/2020 **BSc (Hons) Degree in Biomedical Science IBMS accredited: 2.1, Sri Lanka, Northumbria University (affiliated with BMS)**
- Pathology in Practice.
 - Advanced Analytical Techniques.
 - Drug Design and Development.
 - Molecular Cell Interactions.
- Research:** Determination of Enterobacteriaceae in drinking water samples using cultures, biochemical, and chromogenic testing.

PROFESSIONAL EXPERIENCES

- 09/2022- 12/2022 **Laboratory Scientist, Credence Genomics (Pvt) Ltd/ Sri Lanka**
- Conduct the molecular-based assays for tests that are carried out routinely by the laboratory.
 - Performed molecular testing on various samples (Swabs, body fluids, tumour tissues).
 - Manual and automated RNA extraction; adhered strictly to SOPs.
 - Maintained lab equipment and ensured compliance with health and safety protocols.
- 11/2020-02/2022 **Junior Molecular Biologist, Durdans Hospital Molecular Laboratory/ Sri Lanka**
- Performing 1000-1500 COVID-19 PCR testing per day (Column RNA Extraction Manual, RT-PCR)
 - Carrying out PCR optimisation and quality control tests, and the findings were interpreted into the System (LIMS)
 - Communicating with the top management, sample registration team, and data reporting members.
 - Helping with lab area sanitisation to provide a high degree of safety.
 - Adhering to GLP and health and safety protocols to guarantee the safety of colleagues and other personnel.
 - Receiving, labelling, and analysing samples using the correct testing equipment within the deadlines.
 - Maintained sample records and ensured accurate results reporting
 - Interacting with the specimen receiving staff and providing information on the test results.

- Organising and storing all chemical substances and fluids according to safety instructions.
- Conducted cleaning, sterilisation, and clinical waste management

INTERSHIP

01/2024-05/2024	Microbiology Advanced practice, Teesside University/ United Kingdom Analyse gene expression in Escherichia coli with PolyQ tag Miles Misra serial dilution/ DNA extraction/ PCR/ Agarose gel electrophoresis/ RNA extraction/ RT-qPCR/ Plasmid construction/ Data analysis
09/2018-10/2018	CEYGEN BIOTECH in collaboration with Durdans Molecular Diagnostic Laboratories/ Sri Lanka Molecular Biological Techniques Related to Nucleic Acid-based Detection of Mycobacterium Tuberculosis (MTB), Dengue virus, and JAK2 V617F mutation. DNA extraction/ PCR, RT PCR/ Agarose gel electrophoresis/ SDS page/Protein purification (Ni affinity chromatography/ HPLC).

OTHER EXPERIENCE

06/2019-09/2019	GeneTech Molecular Diagnostics/ Sri Lanka Validation of a new primer sequence for the detection of IVS1-1 (G – A) mutation for PCR detection of Beta Thalassemia. DNA extraction/ PCR, RT PCR, ARMS PCR/ Agarose gel electrophoresis/ Primer designing/ Primer confirmation by using NCBI databases.
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TECHNICAL AND LABORATORY SKILLS

General skills: Attention to detail, Organisational abilities, Numeracy, Patient care and customer service, Report writing, Record keeping, Self-motivation, Time management, Decision-making, Effective communication, Stress tolerance, Strategic planning, Collaborative working, Critical thinking, Results tracking, and being an Active learner.

Basic Laboratory skills: Microscopy proficiency, Pipetting, Centrifugation, Handling analysers, Calibrating instruments, Quality control, Good Laboratory Practice (GLP) regulations, COSHH awareness, SOP, Sample preparation and processing, Technical troubleshooting, Risk assessment, Chemical handling, Lab general administration, Laboratory equipment calibration, and LIMS are all examples of skills.

Microbiology skills: Antibiotic resistance, Aseptic procedures, Broth or media preparation, Plating techniques, Cell culturing, Bacteria staining, Sterilisation techniques and Autoclaving.

Molecular biology skills: PCR techniques, q-PCR, RT-PCR, ARMS PCR, Nucleic acid extraction and purification, Protein extraction and purification, Gel electrophoresis, and Optimisation of molecular assays.

IT, biotechnology, and analytical software: Microsoft Office Package (MS Word/MS PowerPoint/MS Excel), Laboratory IT systems, NCBI, FASTA, Gene Snap, and SPSS are all examples of software.

Immunology: ELISA (Enzyme-Linked Immunosorbent Assay)

ADDITIONAL CERTIFICATES AND SCHOLARSHIP

2011	Member of Girl Guides Association Sri Lanka.
2015	English language and Literature, Aquinas College of Higher studies/ Sri Lanka
2016	Australian National Chemistry Quiz (Credit)
2023	Teesside University Vice-Chancellor Scholarship

LANGUAGES

- English (Full Professional Proficiency)
- Tamil (Native or Bilingual Proficiency)
- Sinhala (limited working proficiency)

INTERESTS

Passionate about leading and advocating for a healthy lifestyle. Enjoys hiking and taking photos of the natural world. In addition, playing badminton and reading. Also, a keen listener of music.

REFERENCES

Available on request