

Premalatha Ragupathi

Sharjah, United Arab Emirates

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PROFILE

Graduate with top honors in Biomedical science (Golden Visa holder), currently pursuing masters in Microbiology and Infection. MOH licensed Lab Technologist with experience in a primary healthcare diagnostics. Scientifically oriented with goals to provide contributions in healthcare and research fields to move towards better community.

Seeking opportunities in healthcare/ research institutions that offers platform to perform in an challenging environment enabling to showcase and enhance my skills.

EDUCATION

Masters in Microbiology & Infection - University of Birmingham, Dubai, UAE

Septemeber 2023 - July 2024

Relevant Modules: Antimicrobials & Resistance, Omics of pathogen, Host-Barrier interactions, Microbial physiology & Virulence, Medical Microbiology

Project: 'Mechanisms of Cell Envelope lipid biosynthesis in *mycobacteria*'

Bachelor of Biomedical Science - Gulf Medical University, Ajman, UAE

September 2018 - July 2022

Relevant Modules: Clinical Biochemistry, Medical Microbiology & Immunology, Medical Molecular Biology, Endocrinology, Hematology & Transfusion sciences, Pharmacology, Forensic sciences, Pathology

Project: 'Prevalence of class A ESBL genes & Carbapenemase producing genes in gram negative bacterial pathogens isolated from various clinical samples collected from Northern region of UAE'

High School Diploma - Gulf Asian English School, Sharjah, UAE

2018

PROFESSIONAL EXPERIENCE

University of Birmingham

May 2024 - Present

Postgraduate Research

Title- 'Mechanisms of cell envelope lipid biosynthesis in *mycobacterium*'

- Observing activity of *MadR*, a key regulator of mycolic acid biosynthesis using *Mycobacterium smegmatis* (biofilms) as surrogate
- Thin-layer chromatographic analysis of mycolic acids of wildtype and mutant biofilms
- Reporter gene assay to measure regulatory activity of *MadR* in *M.smegmatis* biofilms (Wildtype vs Mutant)
- Preparation of various growth media (Middle brook, Tryptic soy broth) to support bacterial growth.

Thumbay Labs, Ajman

January 2022 - July 2022

Lab Technologist Intern

- Successfully acquired knowledge and skills in immunofluorescence microscopy & serology testing, tissue processing, specimen culture and identification, results reporting, quality control etc. during the internship
- Exposure to latest diagnostic equipment such as Mass spectrophotometry allowing understanding of its working principles
- Worked in Covid diagnostics lab & swab collection
- Successfully communicated with superiors and staff
- Originated weekly lab reports, presentations and coursework during the internship

Blood Transfusion & Research Centre, Sharjah
Lab Technologist Intern

March 2022 - April 2022

- Accompanied in performing pre-donation tests such as blood grouping, malarial test, NAAT test and viral panel
- Opportunity to observe & learn blood donation & component separation procedure

TRIPM, Gulf Medical University, Ajman
Undergraduate Research Project

September 2021 - May 2022

Title- 'Prevalence of class A ESBL genes & Carbapenemase producing genes in gram negative bacterial pathogens isolated from various clinical samples collected from Northern region of UAE

- Conducted comprehensive research into resistance gene prevalence in gram negative pathogens in UAE as a part of my UG course
- Worked in collaboration with colleagues, supervisor & lab director to achieve project goals
- Analyzed data using software; SPSS statistical analyzer, Graphpad Prism, MS Excel
- Performed DNA extraction, PCR, Gel analysis and other molecular techniques.
- Successfully met project deadlines while starting internship
- Defended thesis by originating presentation & poster
- Submitted paper for review in Plos One journal

INTERESTS & ACHIEVEMENTS

- Awarded by Ruler of Ajman for obtaining **top Honors** (4/4 CGPA) in Bachelor of Biomedical Science
- Golden Visa Holder - Outstanding Student Category
- Driving License
- University Book Club Co-leader for a year
- Team leader during UG Research project enabling smooth communication amongst team mates and supervisor & managed work schedules and team meetings.
- Appointed as COVID Safety Officer of the University for a year to strategize plans with Infection Control team to ensure student safety during COVID-19 pandemic.

REFERENCE

Dr. Neveen Abdelaziz - University of Birmingham, Dubai, UAE

Associate Professor in Microbiology

Programme Director MSc Microbiology and Infection

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Dr. C.M.Santosh - University of Birmingham, Birmingham, UK

BBSRC Researcher Co-investigator

Institute of Microbiology and Infection

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Dr. Nazeerullah Rahamathullah - Gulf Medical University, Ajman, UAE

Assistant Professor, Department of Microbiology, College of Medicine

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