Maanya M
Chennai, India | *7299009936* | *@mail* | *@linkedin*

Professional Summary

Dual master's graduate with hands-on experience in bacteriology, mycology and phage biology. Keenly looking for opportunities in industries.

Education

Amrita School of Biotechnology — **M.Sc Microbiology** | GPA : 8.73/10.00 — *September 2021 – June 2023*
University of Arizona — **MS Cellular and Molecular Medicine** | GPA : 3.83/4.00 — *September 2021 – June 2023*
Amrita School of Biotechnology — **B.Sc Biotechnology** | GPA : 8.25/10.00 — *July 2018 – June 2021*

Experience

Project Fellow | ***Amrita Vishwa Vidyapeetham/Hindustan Unilever Limited*** *September 2023 –Present*

- Currently working on a project titled "Targeting textile malodor through bacteriophages" in collaboration with Hindustan Unilever Limited.
- A key aspect of the work involves a comprehensive process of isolating , purifying and characterising specific bacteriophages, conducting stability studies to assess their viability, and determining thier host specificity.

Lab Skills

Molecular Techniques : qPCR, Plasmid isolation, competent cell preparation, Gel electrophoresis, SDS-PAGE, Sanger Sequencing, ELISA, Western Blotting, RFLP

Microbiological Techniques : Microscopy, Pure Culture techniques, Staining(Simple, Endospore, Gram), Biochemical Testing, Antibacterial Sensitivity Testing(Kirby-Bauer disc diffusion method), Antifungal susceptibility testing (Broth microdilution method, Gradient diffusion method), Bacteriophage detection, isolation, enumeration, purification, characterisation

Internships and Projects

Masters Dissertation | *June 2023*

- Worked at Vision Research Foundation, Sankara Nethralaya on a project titled "Antifungal resistance of ocular isolated of *Fusarium* species".
- Carried out antifungal susceptibility testing of *Fusarium* species obtained from corneal scrapings of infected patients.
- Work involved Fungal culturing, Microscopy, Broth microdilution(CLSI-M38A), Epsilometer test, Sanger sequencing, Fungal DNA extraction, qPCR, Combinatorial drug studies.

Student Intern | *June 2022*

- Interned at Agilus Diagnostics (previously known as SRL Diagnostics), India's Largest pathology lab chain.
- Worked with the Microbiology/Serology division.
- Gained comprehensive, practical experience in the techniques and methodologies employed for processing and analyzing samples derived from patient specimens.

Bio Science Intern | *June 2021 - October 2021*

- Did an online internship with the Proteomics division in Nference, a Science Software Company
- Contributed to an app development project by processing and organizing raw data files associated with research publications. This involved meticulously reviewing unstructured data sources and transforming them into structured, usable formats to facilitate efficient data utilization within the app.

Bachelor's dissertation | *June 2021*

- Prepared and presented an exhaustive report elucidating COVID-19's virulence strategies, evaluating the array of diagnostic tests employed, examining the therapeutic drugs under investigation, and providing into the progress and challenges of vaccine candidates.

Awards and Certifications

Proteomics Advanced Winter School | *IIT Bombay* — *November 2021*
Machine Learning Workshop | *Lema Labs-IITM Research Park* — *June 2019*
The Science of Stem Cells | *American Museum of Natural History - Coursera* — *May 2020*
Understanding Cancer Metastasis | *Johns Hopkins University - Coursera* — *April 2020*
Introduction to the Biology of Cancer | *Johns Hopkins University - Coursera* — *March 2020*

References

Dr. Sanjay Pal | *Associate Professor,Amrita School of Biotechnology*

- sanjaypal@am.amrita.edu

Dr. AR Anand | *Senior Associate Professor and In-charge microbiology,Medical Research Foundation,Sankara Nethralaya*

- dranand@snmail.org

Dr. Vidhya Prakash | *Assistant Professor,Amrita School of Biotechnology*

- vidhyaprakash@am.amrita.edu