

CURRICULUM VITAE

Nikhila Mohan

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1. PROFILE SUMMARY

Detail-oriented and driven Biotechnology postgraduate with a solid foundation in molecular biology, microbiology, biochemistry, and bioinformatics. Demonstrated hands-on expertise in DNA/RNA extraction, PCR, gel electrophoresis, protein purification, and microbial/cell culture techniques through academic research and laboratory internships. Skilled in experimental design, data analysis, and scientific reporting, with a strong grasp of GMP, GLP, and SOP compliance. Adept at using analytical tools like Nanodrop spectrophotometry and software such as MEGA for phylogenetic studies. Passionate about contributing to impactful scientific research and supporting laboratory excellence in collaborative environments.

2. TECHNICAL SKILL

- Molecular Techniques: PCR, Gel Electrophoresis, DNA/RNA Isolation, nanodrop spectrophotometry, Protein Purification
- Cell & Microbial Culture: Animal Cell Culture, Microbial Culture, Sterile Technique
- Bioinformatics: Sequence Alignment, Phylogenetic Analysis, MEGA Software
- Data Analysis: MS Excel (Advanced), Statistical Analysis
- Lab Compliance: GMP, GLP, GDP, SOP Documentation
- Others: Quality Control (QC), Research Methodology, Report Writing.

3. PERSONAL SKILL

- Keen interest in learning new things.
- Punctual in completing tasks and reaching on time.
- Good communication skill to deal with people diplomatically.
- Teamwork

4. PROFESSIONAL EXPERIENCE

Research Intern

Institute of Wood Science and Technology, Bengaluru (May 2024- June 2024)

- Independently conducted plant DNA isolation using CTAB and commercial kit-based methods, optimizing protocols for improved yield and purity.

- Applied agarose gel electrophoresis to assess DNA quality and fragment sizes, ensuring reproducibility in downstream applications.
- Executed Polymerase Chain Reaction (PCR) for gene amplification, adjusting parameters to enhance efficiency.
- Utilized Nanodrop spectrophotometry to quantify nucleic acid concentration and purity, contributing to molecular analysis integrity.
- Maintained detailed lab notebooks, documented procedures, and generated preliminary data reports.
- Collaborated with researchers and followed GLP and SOPs to ensure experimental accuracy and laboratory safety.
- Supported ongoing projects by preparing reagents, managing inventory, and sterilizing equipment

5. ACADEMIC PROJECT

MSc Dissertation

Mount Carmel College (December 2024- March 2025)

Project title: Isolation and Characterization of protease producing bacteria from garden soil

- Collected and processed soil samples to isolate microbial strains with proteolytic activity, using skim milk agar screening.
- Performed morphological and biochemical tests (e.g., gram staining, catalase, IMViC) for isolate classification.
- Conducted molecular identification using 16S rRNA sequencing and phylogenetic analysis with MEGA software.
- Optimized fermentation conditions (pH, carbon and nitrogen sources) for enhanced protease yield.
- Purified enzyme via ammonium sulphate precipitation and dialysis, followed by activity assays.
- Compiled findings into a research report and presented results, showcasing scientific communication skills.

6. EDUCATIONAL QUALIFICATION

- **Master of Science in Biotechnology (2023-2025)**
Mount Carmel College, Bengaluru
- **Bachelor of Science in Biotechnology, Zoology, Chemistry (2020-2023)**
Mount Carmel College, Bengaluru
CGPA- 8.08/10
- **12th standard (2019-2020)**

Kendriya Vidhyalaya IISc, Bengaluru

Percentage- 92.6%

7. CERTIFICATIONS

- Plant Molecular Biology Techniques – *Institute of Wood Science and Technology, 2024*
- QC Strategies in Food & Pharma – *Rapture Biotech, 2025*
- Data Analysis Using Excel – *Mount Carmel College, 2024*
- National Workshop on Bioinformatics – *Maharani Lakshmi Ammani College, 2023*
- MS Excel (Basic & Advanced) – *Triveni Institute, 2023*

8. EXTRA CURRICULAR ACTIVITIES

- Worked as house CCA captain and prefect in school.
- Participated in various interschool level competitions and won prizes.
- Worked in biotech association in college and took part in various events conducted as part of the association.
- Mentored class 12th students of National Public School, in conducting their investigatory project.
- Participated in international conference on Navigating Cross-functional Collaboration for Ecological Security Pattern.

9. PERSONAL PROFILE

Name	Nikhila Mohan
Father's name	Mohan Lal K S
Mother's name	Sheeja S S
Nationality	Indian
Date of birth	15/08/2001
Languages	Malayalam, Hindi, English

Place- Bangalore

[Nikhila Mohan]