

Sangeetha. H



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Kochi, Kerala

OBJECTIVE

Dedicated Biotechnology professional with a strong passion for scientific research seeking a challenging role in the areas including molecular biology, immunology and microbiology. Driven by the desire to contribute my skills and knowledge to advanced scientific research and develop innovative solutions that positively impact society.

WORK SUMMARY

- Accomplished professional with nearly 2.5 years of experience in Product Development Research.
- Proficient in molecular biology techniques, including DNA isolation, PCR, and Agarose Gel Electrophoresis.
- Well-versed in qualitative and quantitative Lateral Flow Immunoassays, employing immunological principles to detect analytes of interest for diagnostic applications.
- Demonstrated expertise in microbiological methods, including sterilization techniques, microscopy, and pure culture techniques, enabling precise identification and analysis of microorganisms.

EXPERIENCE

Product Research & Development

Joshi Healthcare Inc,
Toronto, Ontario, Canada (Remote)
June 2020 - September 2023

Conducted research on natural and organic health products and nutraceuticals with advanced health benefits, promoting a healthy lifestyle.

Research Intern

Healthcare Technology Innovation Centre (HTIC), IIT Madras
October 2018 - February 2019

Developed Lateral Flow Immunoassay of Cardiac Biomarker Troponin I for detecting Acute Myocardial Infarction.

EDUCATION

M.Sc Biotechnology

Mahatma Gandhi University
2015-2017
GPA: 63%

B.Sc Biotechnology

Amrita Vishwa Vidhyapeetam
2012-2015
GPA: 77%

PROJECTS

- **Ribotyping of Culturable Eubacteria present in Domestic Waste Water (B.Sc Project - 2015)**
 - Employed high throughput ribotyping to rapidly identify microorganisms in domestic waste water.
 - Successfully isolated genomic DNA, amplified 16SrRNA sequences, and identified bacteria through sequencing.
- **Rapid Immunochromatographic Assay for the detection of Brucella abortus antibodies from Blood Serum of Bovine (M.Sc Project - 2017)**
 - Developed a rapid lateral flow assay kit to detect Brucella abortus antibodies in bovine blood serum.
 - Designed a cost-effective diagnostic method with no complex equipment or extensive sample preparation.

PRACTICAL SKILLS

- **Microbiology:**

Sterilization techniques, Microscopy, Pure culture techniques (streak plate, spread plate, and pour plate). Staining techniques, Enumeration of microorganisms, Preparation of various media. Operation and maintenance of autoclaves and laminar air flow hood, Biochemical tests.
- **Molecular Biology:**

Genomic DNA isolation, Agarose Gel, Electrophoresis, Spectrophotometric Analysis by Biophotometer, PCR.
- **Immunology:**

Blood grouping, Qualitative and Quantitative Lateral flow immunoassay.

ACHIEVEMENTS AND AWARDS

- Participated in the 'Workshop on Hydroponics' during National Level Multifest (VIDYUT), Amrita School of Biotechnology, Kerala (March 2013).
- Attended the 'International Conference on Biotechnology for Innovative Applications' at Amrita Vishwa Vidhyapeetam, Kerala (August 2013).
- Participated in the national seminar 'The Immune System: In Health and Disease' at Union Christian College, Ernakulam (September 2016).
- Engaged in 'VIT BIOSUMMIT' on 'Bridging Industry and Academia' at VIT University, Tamil Nadu (October 2016).
- Successfully completed 'ISO 22000 : 2005, Food Safety Management Systems-Requirements for any organization in the Food Chain's Training program (February 2017).
- Participated in the National Workshop on 'Developmental Biology-Gametogenesis and Fertilization' organized by Biotechnika Info Labs (February 2018).
- Engaged in various online webinars related to Microbiology and Drug Discovery.

SOFT SKILLS

- Excellent oral and communication skills.
- Strong team player with adaptability and the ability to work independently.
- Effective time management and project coordination abilities.

ADDITIONAL INFORMATION

Date of Birth: 22/09/1994

Nationality : Indian

Languages Known : English, Malayalam,
Hindi, Tamil

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

Yours sincerely,
Sangeetha H