

## SANGEETHA H

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### Objective

To pursue my career in biotechnology with full dedication and perseverance so that my research can benefit the society.



### Work Summary

- A competent professional with nearly 2.5 years experience in **Product Development Research**.
- Well versed in qualitative and quantitative **Lateral Flow Immunoassays**, molecular techniques such as **DNA Isolation, AGE and PCR**.
- A strategic planner and implementer with expertise in initiating, planning and implementing various project related works.



### Experience

#### Joshi Healthcare Inc

*June 2020 - September 2022*

Research & Development Assistant

Research on various health products (nutraceuticals) which offer unique formulation researched and tested ingredients with advanced health benefits to complement a healthy lifestyle.

#### Healthcare Technology Innovation Centre (HTIC), IIT Madras

*October 2018 - February 2019*

Research Intern

Development of Lateral Flow Immunoassay of Cardiac Biomarker Troponin I for the detection of Acute Myocardial Infarction.



### Projects

#### Ribotyping of culturable Eubacteria present in domestic waste water (B.Sc Project - 2015)

Ribotyping is a high throughput method that enables rapid identification of microorganisms. It involves isolation of genomic DNA, amplification of the 16SrRNA sequence and finally sequencing of the variable region to establish the identity of the bacteria. In the current project, waste water were collected aseptically and the organisms isolated were subjected further to ribotyping and identification employing sequencing.

#### Rapid Immunochromatographic Assay for the detection of Bovine Brucella abortus from blood serum of bovine (M.Sc Project - 2017)

Bovine Brucellosis, caused by the bacterium Brucella abortus is an economically important cause for abortions in cattle. Lateral flow immunoassay is a diagnostic method that enables rapid identification of the captured antibody developed during the infection. It doesn't require expensive equipments, highly trained laboratory personnel, stable reagents and multistep sample handling or preparation. In the current project, I developed a rapid lateral flow assay kit to detect the captured antibody which is easy to use and can be utilised on the farm to reduce the time required for transport and lab diagnosis. The assay may be used to diagnose bovine brucellosis at an early stage of infection and could be an effective tool in controlling Brucella infection.



## Education

### Mahatma Gandhi University

2015-2017

M.Sc Biotechnology

63%

### Amrita Vishwa Vidhyapeetam University

2012-2015

B.Sc Biotechnology

77%



## 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, Maintenance and storage of aerobias and anaerobic microbial cultures, Antibiotic sensitivity assay.

### Molecular Biology

Agarose Gel Electrophoresis, Isolation of genomic DNA, PCR

### Immunology

Blood grouping, Qualitative and Quantitative Lateral flow immunoassay



## Skills

Good oral and communication skills

Teamwork

Easily adaptable and ability to work independently

Time management



## Achievements & Awards

Participated in the 'Workshop on Hydroponics' as part of National Level Multifest (VIDYUT) held on 1-3rd March 2013 at Amrita School of Biotechnology, Kollam, Kerala.

Participated in the 'International Conference on Biotechnology for Innovative Applications' held during 11-14th August 2013 at Amrita Vishwa Vidhyapeetam, Amritapuri Campus, Kerala.

Participated in national seminar 'The Immune System: In Health and Disease' organised by the post graduate department of zoology of Union Christian College, Aluva, Ernakulam on 22nd Sept 2016.

Participated in 'VIT BIOSUMMIT' on topic 'Bridging Industry and Academia' held at VIT University, Vellore, Tamil Nadu on 17th and 18th Oct 2016.

Successfully completed 'ISO 22000 : 2005, Food Safety Management Systems-Requirements for any organisation in the Food Chain's Training programme conducted by INDOCERT on 22nd and 23rd Feb 2017 at Union Christian College, Aluva , Ernakulam.

Participated in the one day workshop on 'An insight in intellectual property rights' jointly organized by St Peter's College, Kolenchery, Ernakulam and Patent Information Centre- Kerala/KSCSTE held at St Peter's College , Kolenchery, Ernakulam on 21st March 2017.

Participated in National Workshop on 'Developmental Biology-Gametogenesis and Fertilization' held on 10th February 2018 organized by Biotechnika Info Labs.

- Participated in the online webinar on 'Microbiologist in Everybody' organized by Biocon Academy and Biotechnika Info Labs on 3rd June 2020.
- Participated in the online webinar on 'Microbiome-Perceptions and Perspectives' organized by Biotechnika Info Labs on 27 June 2020.
- Participated in the online webinar series on 'Dive in to the world of Drug Discovery' organized by Schrodinger and Biotechnika Info Labs on 19 July-28 July 2021.



#### **Additional Information**

Date of Birth : 22/09/1994

Nationality: Indian

Languages Known : English, Malayalam, Hindi, Tamil

Father's Name : K.R Harish

Mother's Name : Sreevidhya R



#### **Declaration**

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

Your's Sincerely,  
Sangeetha H