



# IRFANA K K

## MSc BIOTECHNOLOGY

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### CAREER OBJECTIVE

Seeking a position to utilize my knowledge, skills, and abilities in the industry that offers competitive environment, a true profession to put in the acquired knowledge and gain exposure to upcoming technologies while being resourceful, innovative and flexible.

### WORK EXPERIENCE AND TECHNICAL SKILLS

#### JUNIOR MICROBIOLOGIST STATUS : CURRENTLY WORKING

Medivision Scan and Diagnostic Research Centre, Kochi, Kerala

##### Main duties performed:

- Preparation of Basic agar medias including Macconkey agar, Muller Hinton agar, Nutrient agar, XLD, TCBS.
- Preparation of Biochemicals, Macconkey broth, SFB, FTG, BHI
- Culture and Sensitivity.
- Sensitivity plate reading according to CLSI Guidelines.
- Staining includes Gram stain & AFB Stain.
- Fungal culture and Fungal KOH Preparation.
- BACTEC Culture.
- HPV, MTB/RIF detection by using GeneXpert.
- Detecting and quantifying proteins and antibodies from patient samples by using different ELISA test kits.
- Detection of ANA in patient sample by ANA Profiling.
- Quality management of organization including maintaining quality policy, assurance, control and improvement.

#### MOLECULAR BIOLOGIST (SEP \_ MARCH 2022)

Medivision Scan and Diagnostic Research Centre, Kochi, Kerala

##### Main duties performed:

- Collection and verification of clinical samples from various regions.
- Sample preparation and Nucleic acid (RNA) extraction from VTM (Both Manual method and Automated).
- Automated Method Includes: Thermo Scientific KingFisher Flex, Mispal Magenta, Liferiver, Accula Dock
- RT PCR set up Includes: QuantStudio, Rotor-Gene Q (RGQ), RT PCR Tata
- Recording, analyzing and interpreting data.
- DNA, HCV, HLA-B Extraction.

### AWARDS

2020 \_ First rank in the MSc Biotechnology degree examination.

2019 – First place in the degree Examination held during November.

2018 – First place in the degree Examination held during April.

### SKILLS

#### Personal

Critical Thinking  
Data managing  
Documentation  
Interpersonal  
Motivation  
Teaching  
Team leadership

#### Computer

Microsoft word  
Microsoft Excel  
MS Power point  
BLAST  
FASTA

#### Laboratory

DNA Extraction  
RNA Extraction  
Blotting techniques  
RT PCR  
Microarray techniques  
Animal cell culture  
Preclinical studies

## **EDUCATION**

2018 – 2020

### **MSc Biotechnology**

Bharathiar university

Department of Biotechnology  
Rathnavel Subramaniam College of Arts and Science  
Sulur, Coimbatore  
Percentage of Marks: 86%

2015– 2018

### **BSc Biotechnology**

University of Calicut

Department of Biotechnology  
GEMS Arts and Science College, Ramapuram,  
Malappuram  
Percentage of Marks: 75%

2013 – 2015

### **HSE XI - XII<sup>th</sup> Standard**

Kerala Board of Higher Secondary Examination

Biology Science, Physics, Chemistry, Mathematics  
Government vocational Higher Secondary School,  
Mankada, Malappuram  
Percentage of Marks: 78%

2012– 2013

### **SSLC X<sup>th</sup> Standard**

Kerala Board of Public Examinations

Government Higher Secondary School, Mankada,  
Malappuram  
Percentage of Marks: 85%

## **WORKS AND PROJECTS**

- To evaluate the chemosensitising efficacy of Heteronemin, a marine sesquiterpenoid towards Cytarabine chemotherapy in leukemia cells Division of Cancer research, **Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram**
- Microalgal biomass production and bioinstrumentation techniques Department of Microbiology, Bharathidasan university, Tiruchirapalli, On 13th – 17th May 2019.
- Identification and molecular characterization of *Trichoderma spp.* Collected from Black pepper rhizosphere and its biocontrol against Tomato wilt pathogen *Xanthomonas*. Phytochrom Bioscience, Agricultural Biotechnology Research and Development Laboratory Calicut

### **Clinical research**

CDM  
GCP  
GLP  
EDC

### **Languages**

Arabic  
English  
Malayalam  
Tamil

### **ONLINE COURSES**

Future health care  
Genome editing  
Nanomedicine

### **SEMINAR & TALK**

Presented a paper on Identification and molecular characterization of *Trichoderma spp.* and its biocontrol against Tomato wilt pathogen *Xanthomonas* in Dr.G.R.Damodaran College of Science, Coimbatore, 10th and 11th January 2019.

## **EXTRA CURRICULUR ACTIVITIES**

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### **NATIONAL TRAININGS ATTENDED:**

- Attended Training on **Animal Tissue Culture techniques** in the Centralized Research Laboratory, Department of Veterinary Microbiology, Veterinary college and research insitute, Namakkal, On 26th September 2019.
- Attended Training on **Microalgal biomass production and bioinstrumentation techniques including Confocal microscopy, RT-PCR, Atomic Absorption Spectrometry, Gas Chromatography, Fermentor and in silico method of r RNA structure prediction** in the National Repository for Microalgea and Cyanobactria – Freshwater (Sponsored by DBT, Govt of India), Department of Microbiology, Bharathidasan university, Tiruchirapalli, On 13th – 17th May 2019.
- Attended training on **Mashroom Cultivation Techniques** in the Integrated Rural Technology Crenre (IRTC), Palakkad, On 18th November 2016.

### **NATIONAL WORKSHOPS ATTENDED:**

- Attended Workshop on **Proteins for structure and biological studies**, Rathnavel Subramaniam College of Arts and Science Sulur, Coimbatore, On 26th – 27th August 2019.
- Attended Integrated Workshop on **Advance Biotechnology Techniques-Gene Amplification by PCR** at Karpagam University, Coimbatore, On 14th – 15th Febuvary 2019.
- Attended Workshop on **Basic Techniques in Bioinformatics**, Conducted by IIT Kharagpur, 19th – 20th September 2019.

### **NATIONAL WEBINARS AND SEMINARS ATTENDED:**

- Attended National Webinar on **Oxidative stress and associated complications**, Conducted by GEMS Arts and Science College, Malappuram, 14th September 2020.
- Attended National Webinar on **Research Innovation and Entrepreneurship in the Biotechnology Sector**, Conducted by ST. Mary's College Trissur, 14th August 2020.
- Attended Webinar on **Microorganisms in Environmental Sustainability**, organised by the Department of Microbiology, K.S.Rangasamy College of Arts and Science College, Tiruchengode, 3th June 2020.

## **INTRESTS**

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Painting  
Drawing  
Driving  
Swimming

## **PROFILE**

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DOB: 17 March 1997  
Gender: Female  
Blood group: B+ve  
Nationality: Indian  
Marital Status: Unmarried

- Attended Webinar on **Stress Management**, organised by the Department of Microbiology, K.S.Rangasamy College of Arts and Science College, Tiruchengode, 2th June 2020.
- Attended National level Webinar on **Standard practices in harvesting, handling and marketing of meat, poultry and fish, organized by Meat technology unit**, Govt of Kerala,ICAR,and CIFT, 27th May 2020.
- Attended International level Webinar on **COVID – 19 Vaccine development**, 15th May 2020.
- Attended International level **Conference on Challenges in Biomedicine**, Sree Narayana Guru College, Coimbatore, 30th Januvary 2019.
- Attended National level Seminar on **Foodborne pathogenesis and its biocontrol Organised** by Dr.G.R.Damodaran College of Science, Coimbatore, 10th – 11th Januvary 2019.

#### **NATIONAL E- QUIZ ATTENDED:**

- Attended National level Online BioQuiz on COVID – 19 Organised by Kongunadu Arts and Science College, Coimbatore, 18th May 2020.
- Attended Biotechnology e-quiz programme Organised by Karpagam University, Coimbatore, 14th May 2020.

#### **DECLARATION**

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I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

**Irfana k k**

Place: Malappuram, Kerala