Curriculum Vitae

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# Kiran Jakkala, (Ph.D.)\_

Department of Microbiology

K,T,S GDC RAYADURG

Rayadurg – 515865,A.P. India.

# Contact information:

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# Research Experience:

* **Nine years of research** experience at Univeristy of Hyderabad (**5 years as PhD student** and **2 years as research associate and 2 Years as Research assisitant**), Hyderabad, India.
* My Ph.D. work focused on the transcription Regulation of PE,PPE genes in Mycobacterium Tuberculosis. The work demonstrated the significance for the existence of unique genes and its regulations

# Research Publications

1. **Jakkala, K.,** and [**Sharmistha Banerjee**](https://pubmed.ncbi.nlm.nih.gov/?term=Banerjee+S&cauthor_id=27621726). Mycobacterium tuberculosis Zinc Metalloprotease-1 Assists Mycobacterial Dissemination in Zebrafish. **(2016)**. ***Front Microbiol.* 29:7:1347. doi: 10.3389**.
2. Mycobacterium tuberculosis Zinc Metalloprotease-1 Assists Mycobacterial Dissemination in Zebrafish
3. **Jakkala, K.,** and [**Sharmistha Banerjee**](https://pubmed.ncbi.nlm.nih.gov/?term=Banerjee+S&cauthor_id=27621726)[Mycobacterium tuberculosis Zinc Metalloprotease-1 Elicits Tuberculosis-Specific Humoral Immune Response Independent of Mycobacterial Load in Pulmonary and Extra-Pulmonary Tuberculosis Patients.](https://pubmed.ncbi.nlm.nih.gov/27065979/)( **(2016)** Front Microbiol. 2016 Mar 31
4. https://pubmed.ncbi.nlm.nih.gov/27065979/

# Technical Expertise

* + Handling of pathogenic *Mycobacterium Tuberculosis* in BSL-III,

, non-pathogenic *Mycobacterium smegmatis*, *E. coli*

* + HPLC
  + **MALDI -TOF**
  + **ELISA, Westen blot, 2D Electrophoresis**
  + Handling zebrafish Embroyes
  + Mass spectrometry
  + EMSA
  + Flow cytometry and Data Analysis **(FACS)**
  + **Expert in Protien purifcations in Multiple Ways**
  + Protein purification and enzyme assays
  + Protein denaturation and renaturation techniques
  + Genomic DNA preparation from mycobacteria
  + Isolation of total RNA from Mycobacterial species
  + Western Blotting **(WB)** and Northern Blotting **(NB)** techniques
  + Purification of bacterial **polysaccharides**
  + Real-time **PCR**
  + Experience in working in **BSL-III** facility

**Faculty Incharge:**

1. JKC CO Ordinator : september 2021- December 2022
2. APPSDC SPC September 2021 - Till date
3. NCC ANO: August 2022 - Till Date
4. Examination convener: September 2021 - Till Date
5. Nesletter Incharge September 2021- June 2023

# Research Interests:

* Host-pathogen interactions
* Bacterial response to Different stress conditions
* Bacterial persistence and antibiotic resistance
* Study of reactive oxygen species and their role in resister emergence
* Ultrastructural analysis of bacterial cells and cell lines
* Bacterial Growth curve Experiments

# Education:

September 2021 - Till Date :**Assistant Professor**

Department of Microbiology

K,T,S GDC RAYADURG

Rayadurg – 515865,A.P. India.

August 2012 - 2017 : (**Ph.D.)**

Department of Biochemistry**,**

Univ.of Hyderabad,Hyderabad, India. **Research supervisor Dr. S.Banerjee**

2008 - 2010 : **M.Sc.**

Department of Biochemistry

Andhra University, Andhra Pradesh, India.

# Fellowships and awards:

* 2011 - unior research fellowship from University Grants Commission (UGC), Government of India
* 2012 - Junior research fellowship from CSIR-JRF, Government of India
* 2012 - Qualified in Graduate Aptitude Test in Engineering (GATE) exam with 95% score
* 2013 - Qualified ICMR- JRF Fellowship
* 2015- Qualified Civils Prelims
* 2019 Faced the FSSAI Technical Director interview
* 2019 Secured distsrct second rank in SACHVALAYAM post in ward sanitiaiton inspector in Visakahapatnam
* 2021 Secured posting in Degree lecturer in K,T,S GDC Rayadurg
* 2022 Secured job as Scientist -B in ICMR - Bhuvaneshwar

# References

1. **Prof. S.Banerjee**

Department of Biochemistry

Univeristy of HYDERABAD

1. **Shekar c Mande**

Former CSIR Director

NCCS- PUNE

Signature