

SANDHYA KURUBA

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SYNOPSIS:

- A hardworking professional who has completed *Master of Science* in the field of *MICROBIOLOGY* from *affiliated Osmania University*.
- Teaching and Research experience of 11 Years 1 Months
- Acquired practical knowledge through various trainings and academic projects. Keen learner with constant zest to acquire.
- Team player with strong analytical and leadership skills.

EDUCATIONAL DETAILS:

Malla Reddy University, Hyderabad

Pursuing Ph.D. in Clinical Microbiology

Osmania University, Hyderabad

Master of Science, April 2009

Microbiology – 71%

Osmania University, Hyderabad

Bachelor of Science, April 2005

Microbiology, Biotechnology, Chemistry – 79 %

SKILLS:

- Programming languages: C.
- Application software: Proficient in Microsoft word, Excel, PowerPoint
- Graph pad prism software

TECHNICAL SKILLS

- Microbial techniques

- Isolation, screening characterization of microbes from different sources
- knowledge of different statistical designs and software's

INSTRUMENTAL KNOWLEDGE

Autoclave, Centrifuge, Chromatographic column, Electric balance, Electrophoretic apparatus, Hot Air Oven, Incubator, Laminar air flow, Imaging Microscope, Shaker, UV-VIS spectrophotometer, PCR, chromatography, HPLC etc.

AREA OF INTEREST:

- Research and development
- Academics

PARTICIPATED IN CONFERENCES / SEMINARS / WORKSHOPS

1. Participated “**Two-Day National Conference on NEP 2020**, scheduled on **February 14-15, 2025**, at Malla Reddy University campus in Hyderabad.
2. Participated in webinar on “**Tackling Global Health challenges through Public health innovation**” conducted by IFERP Life sciences on 4th February 2025.
3. Participated in workshop on “**Molecular Docking, Biological software packages, and cell culture experiment protocols**” by Sprank Scientific and Creative Solutions (OPC) Pvt. Ltd., during 7th - 11th January, 2025
4. Participated in Research Scholar's conclave 2024 “**Your pathway to Doctoral excellence**” at Malla Reddy University, Hyderabad on 9th November 2024.
5. Participated in The **Global South Conference on Infection Prevention and Control and Antimicrobial Stewardship (G-SPARC) 2024** held in Hyderabad, Telangana, India from October 3–5, 2024.
6. Participated in **3rd International Conference on Clinical and Applied Microbiology (3rd ICCAM)**” on 26th and 27th July 2024, Bali, Indonesia, Hybrid Conference Organized by BioLEAGUES associated with Oxford University.
7. Participated in Webinar “**Surveillance and monitoring of anti-microbial Resistance**” organized by GBR foundation on 11th July 2024.

8. Participated in “**National Seminar on Post Pandemic Scenario: Impending Virus Research**” on 11th October 2023 at Osmania University
9. Participated in “**National Seminar on Ascent of Microbiome Research for Nutrition and Health**” on 27th June 2022 at Osmania University.
10. Participated in “**XIX APSI SCIENTISTS MEET 2010 – Plant Biotechnology towards Nutrition and Nutraceutical potential**” on 30th September and 1st October 2010 at Hyderabad.
11. Participated in a two-day lecture workshop on “**Current Trends in Animal Biology and Biotechnology**” on 8th and 9th February 2010 at Hyderabad.
12. Participated in a two-day workshop on “**DNA isolation from human hair and blood, Agarose gel electrophoresis, DNA finger printing, RFLP and PCR.**” Organized by Bio axis DNA research Centre & Department of Microbiology Sarojini Naidu Vanita Maha Vidyalaya on 27th and 28th January 2010 at Hyderabad.

PRESENTED IN CONFERENCES / SEMINARS / WORKSHOPS

1. Presented at International conference on “**Emerging Microbial Techniques for One-Health (EMTH-2025)** on 15th – 17th October 2025 at Osmania University, Hyderabad.
2. Presented at international conference “**Cardiobeat-2K5**” 19th and 20th September 2025 at Malla Reddy University campus in Hyderabad.
3. Presented a paper on “***Zingiber Officinale – In-vitro antimicrobial activity***” in international conference – Global Meet of Biologists & Satellite Conference on Vector Control and Management: present status and future strategies on 26th to 28th December, 2012.
4. Presented a paper on “**Therapeutic Phytochemicals from Green gold of India – *Piper betle***” in National Conference on Current Status & Recent Advances in Medicinal and Aromatic Plants Research on 17th & 18th February 2012 at Hyderabad
5. Presented a paper on “**Dietary Antioxidants – Allergy**” in 8th Biennial Conference IAACON – 2011 conducted by Indian Academy of Allergy on 12th-14th, August 2011 at Bangalore.

PAPERS PUBLISHED:

- Praveen Reddy P., K. Sandhya and Aparna Srikantam,; “Psychobiotics, Novel Therapeutic Agents for the Psychiatric Disorders” in Novel Research in Microbiology Journal, Volume 9 ,Issue 1, 28 – 40; 2025, <https://dx.doi.org/10.17582/journal.NRMJ/2025/9.1.28.40>
- O.Bhagya Lakshmi, K. Sandhya, P. Harilatha Reddy, Pavithra Vani karsha, “Antimicrobial and Antioxidant activity of *Piper nigrum* Linn.” in international journal of Advances in Plant Sciences – 27(1), 229-233; 2014. (ISSN: 0970-3586)
- K. Eshwari, P. Saroja, K. Sandhya, B. Sireesha, Pallepogu Raghavaiah, And Ch. Sarala Devi “A Study on structural aspects and microbial activity of(E)-4-pyridinecarboxaldehyde-3-hydroxy-5(Hydroxymethyl)-2-Methyl-oxime hydrochloride: An experimental and computational approach” in international journal of Pharmacy and Pharmaceutical Sciences- vol 6(1),167-173:2014. (ISSN: 0975-1491)
- O.Bhagya Lakshmi, K. Sandhya, P. Harilatha Reddy, Pavithra Vani karsha ,; “Studies on Antimicrobial activity and Antioxidant properties of *Syzygium aromaticum* (Cloves)” in international journal of Advances in Plant Sciences -Vol.27, No.2,279-286:2014. (ISSN:0970-3586)
- O.Bhagya Lakshmi, K. Sandhya, P. Harilatha Reddy, Pavithra Vani karsha, “*In-vitro* studies on antimicrobial activity of *piper betel* Linn. Leaf” in international journal of Advances in Plant Sciences – 26(1), 257-260; 2013. ISSN: 0970-3586

MEMBER SHIP

- USFN – University Society of Food and Nutrition – Membership No. USFNM0099.

EXPERIENCE:

CURRENT ENGAGEMENT:

Nature of working: Assistant Professor

13.10.2022 – Till date

Currently working as Assistant Professor in Department of Microbiology, Malla Reddy University, Hyderabad, India from 13 October 2022.

Nature of working: **Lecturer**

01st Dec 2020 – 31st July 2022

Job Profile:

- Implemented stimulating lessons to capture students' attention and interest. Utilized discussion-based lessons in order to promote a deeper understanding of the concepts.

INSTITUTION: Pragathi Degree & PG College, Kukatpally, Hyderabad

Nature of working: **Project fellow**

9th March 2011 – 01st May 2014

Job profile:

- Working for Major Research project supported by UGC entitled “Phytochemistry & Antimicrobial, Antioxidant Properties of Certain Edible Plant Products and Their Mechanism of Action on Bacteria”
- Working and cooperating with Principal Investigator and the Co- Investigators to lay down plans and programs for additional research on specific areas of the Project.
- Created research ideas and engaged in implementing it
- Presented papers on the work done and used the results for the benefit

**INSTITUTION: Sarojini Naidu Vanita Maha Vidyalaya, Exhibition Grounds,
Nampally, Hyderabad**

Nature of working: **Lecturer**

18th July 2009 – 28th February 2011

Job Profile:

Implemented stimulating lessons to capture students' attention and interest. Utilized discussion-based lessons in order to promote a deeper understanding of the concepts. Administered monthly tests to track student progress. Participated in various extracurricular activities. Attended all staff meetings and professional development workshops.

**INSTITUTION: Sarojini Naidu Vanita Maha Vidyalaya, Exhibition Grounds,
Nampally, Hyderabad**