MEDURI YAMINI

Assistant Professor | Department of Microbiology

Vignan Degree & PG Colleges, Peddapalakaluru, Guntur |
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CAREER OBJECTIVE

- To contribute to academic excellence through effective teaching, student mentorship, and continuous professional development while supporting the institution's growth through innovative teaching practices, academic collaboration, and research.

PROFESSIONAL PROFILE

- Postgraduate in Life Sciences with specialized research experience in heavy metal-tolerant rhizobacteria and Plant Growth-Promoting Rhizobacteria [PGPR]. Proficient in microbial physiology, microbial genetics, PGPR trait analysis, and advanced microbiological, biochemical, and molecular biology techniques. Passionate about teaching and interdisciplinary research in microbial biotechnology and genomics, with a strong commitment to guiding students and developing impactful research.

EDUCATIONAL QUALIFICATIONS

Degree / Course	Institution / Board	Year	Division	Marks (%)
M.Sc. Microbiology	University Campus, Acharya Nagarjuna University, Guntur, A.P.	2025	Distinction	77%
B.Sc. Medical Lab Technology	Guntur Medical College, Guntur, A.P.	2023	Distinction	71%
Higher Secondary Education (10+2)	Sri Chaitanya Junior College, Guntur, A.P.	2017	Distinction	86%

School of Secondary Education (10th)	Bhashyam High Schools, Guntur, A.P.	2015	Distinction	78%

ACADEMIC ACHIEVEMENTS & COMPETITIVE EXAMINATIONS

Examination	Conducting Body	Rank	Obtained Marks	Maximum Score	Qualifying Year
APRCET (Andhra Pradesh Research Common Entrance Test)	Sri Padmavathi Mahila Visvavidyalayam, Tirupati	42	130	65	2025

PROFESSIONAL EXPERIENCE & RESEARCH PROJECTS

Teaching Experience: Assistant Professor, Department of Microbiology, Vignan Degree & PG College, Peddapalakaluru, Guntur (May 29, 2025 – Present |).

Master's Research Project: Screening of Heavy Metal-Tolerant Rhizobacteria from Agricultural Fields of Chilli and Cotton of Guntur District, A.P., India.

Student Projects: Impact of Shower Gels on Human Skin Normal Flora.

Research Interests: Microbial Biochemistry, Molecular Biology, Microbial Genetics, Genomics, and Applied Microbiology.

TECHNICAL EXPERTISE & LABORATORY SKILLS

- **Microbiological Techniques:** Isolation, screening, and preliminary characterization of heavy metal-tolerant rhizobacteria; bacterial culture, aseptic techniques, sub-culturing, and maintenance of microbial isolates.
- **PGPR Trait Evaluation:** Screening and assessment of Plant Growth-Promoting Rhizobacteria (PGPR) traits; preparation and handling of specialized microbiological culture media (including heavy metal-supplemented media).
- **Physicochemical Analysis:** Soil sample collection and physicochemical analysis, including moisture, dissolved oxygen, protein, and carbohydrate estimation.
- **Staining & Microscopy:** Basic microbiological staining and microscopy techniques; preparation of laboratory reagents, solutions, and buffers.
- **Molecular & Genomics:** Basic knowledge of molecular biology, microbial genetics, and genomics; basic Python programming for biologists and bioinformatics tools.

- **Laboratory Standards & Safety:** Laboratory documentation, data recording, interpretation of experimental results, Good Laboratory Practices (GLP), aseptic handling, and biosafety procedures.
- **Scientific Communication:** Scientific data interpretation, statistical analysis, scientific writing, literature review, and research documentation.

PUBLICATIONS

[1] Sujatha Lakshmi, R., Yamini, M., Bhagya Lakshmi, C., Naveena, G., Harshita, N., Akshaya, K., Poojitha, V., & Tanuja, Y. (2026). A study on the effect of commercial shower gels on normal human skin flora. International Journal of Science and Research Archive, 18(1), 998-1012. https://doi.org/10.30574/ijsra.2026.18.1.0189

[2] Sujatha Lakshmi, R., Yamini, M., Bhagya Lakshmi, C., Naveena, G., Harshita, N., Akshaya, K., Poojitha, V., & Tanuja, Y. (2025). Impact of Silver Nanoparticles on Human Skin Normal Flora. International Journal for Modern Trends in Science and Technology. https://doi.org/10.5281/zenodo.19561841

ORAL & POSTER PRESENTATIONS

[1] M. Yamini. **"Mutation-Driven Microbial Strain Improvement for Enhanced Bioactive Compound and Drug Discovery Applications"** at Siddhartha College, Vijayawada, India, from 16th to 17th October, 2025.

[2] M. Yamini. "**Abiotic Stress Tolerance in Crops: GM Approaches"** at Vignan University, Guntur, India, from 13th to 14th March, 2026.

[3] M. Yamini. "**Impact of Silver Nanoparticles on Human Skin Normal Flora"** at Chalapathi College, Guntur, India, from 1Antimicrobial7th to 19th April, 2026.

[4] M. Yamini. "**Antimicrobial Activity of Marine Fungi Isolated from Machilipatnam Soil Sample"** at Siddhartha College, Vijayawada, India, from 16th to 17th October, 2025.

[5] M. Yamini. "**Beneficial Microbes in Plant Growth Promotion"** at Vignan University, Guntur, India, from 13th to 14th March, 2026. Got FIRST position

[6] M. Yamini**. "Eco toxicity and Environmental Health: Evaluating the Efficacy and Safety of Microbial Remediation"** at Vignan University, Guntur, India, from 29th to 30th October ,2026. Got **Young scientist award.**

WORKSHOPS & PROFESSIONAL TRAINING

- Attended a two-week National Level Workshop on "**Python Programming for Biologists",** organized by the Dept. of Botany & Microbiology, Acharya Nagarjuna University.
- Attended hands-on training on "**Basics in Bioinformatics**", organized by Hindu College in association with Mana Biotech Private Limited.

- Attended National Workshop on "**Machine Learning Advances in Microbiology",** organized by the Dept. of Botany & Microbiology, Acharya Nagarjuna University.
- Attended The Doctorpreneur Academy's workshop on **AI & ChatGPT in Healthcare**, Certificate No. 2024-22-1-104.
- Attended the Skill Nation Live Masterclass on **Claude AI.**
- Attended the " **In Memory of Shaheed-e-Azam Bhagat Singh** " event conducted by Disha Students Organization.
- Attended the course organized by Mindler and got a certificate as an **International Certified Career Coach.**
- Attended the **Basic First Aid Training** under the aegis of India Red Cross Society, Guntur.
- Attended the **National conference on New perspectives in Forestry for Sustainable Development and Climate Change.**
- Attended in **Inter-Collegiate youth festival** 2024-25.
- Attended in **women empowerment cell state level painting competition** at JKC.
- Attended in **Novels processes and their Applications in Biology**.

DECLARATION

I hereby declare that the information furnished above is true, complete, and correct to the best of my knowledge and belief.

Place: Guntur
Date: 27-07-2026

Meduri Yamini
(M. YAMINI)