

Dr. Uma Maheswari Kolipaka.

Assistant Professor, Dept. Of Pharmaceutics & Biotechnology,

K.V.S.R Siddhartha Institute of Pharmaceutical Sciences, Vijayawada.

Email: fromuma7@gmail.com

Address: D.No: 9, Dinesh Nagar,

Near M.A.M. College of Pharmacy, Kesanupalli, Narasaraopet, Andhra Pradesh – 522601

PROFESSIONAL SUMMARY

Doctorate in Pharmaceutical Sciences with 11.5 years of expertise in academics and advanced research. Specialised in Microbial Biotransformation, specifically focusing on the **bioconversion of Tetracycline** using bacterial and fungal cells and immobilised systems, and to characterise novel transformed products with hyphenated techniques like LC-MS. Proven expertise in **Microbial Biotransformation, fermentation technology, microbiological assays**. Published author of a textbook, patents, and multiple research, review articles in indexed journals. With a proven track record in bridging the gap between Pharmaceutical Biotechnology and Analytical chemistry, seeking to leverage advanced research skills and academic leadership in a challenging professional environment.

EDUCATION

Degree / Qualification	Board / University	Year	Details / Outcome
Ph.D. (AICTE QIP)	Delhi Institute of Pharmaceutical Sciences and Research (DIPSAR), New Delhi	2026	Awarded Feb 25, 2026
M.Pharm. (Biotechnology)	Andhra University College of Pharmaceutical Sciences, Visakhapatnam	2014	CGPA: 8
B.Pharmacy	Vishwa Bharathi College of Pharmaceutical Sciences, Perecherla, Guntur.	2012	79%
D.Pharmacy	Krishnaveni Exhibition Society, Vijayawada	2009	78%
Intermediate	Sneha Junior College, Kodada	2003	78%
SSC (X Class)	Vishwa Bharathi Public School, Kodada	2001	68%

PROFESSIONAL EXPERIENCE:

Period	Position	Organization	Key Responsibility / Recognition
June 11 th to Present	Assistant Professor	K.V.S.R Siddhartha College of Pharmaceutical Sciences, Vijayawada.	Advanced Pharmaceutical Research and Academics.
Nov 2024 – April-2026	Associate Professor	A.M Reddy Memorial College of Pharmacy	Advanced Pharmaceutical Research & Academics.
2023 – 2024	Guest Faculty	Acharya Nagarjuna University, Guntur	Specialized Biotech Lectures & Curriculum Support
Aug 2023 – Oct 2024	Associate Professor	Siddhartha Institute of Pharmaceutical Sciences	Research Supervision & Departmental Coordination
Feb 2015 – Aug 2023	Assistant Professor	M.A.M. College of Pharmacy	Undergraduate Mentorship & Lab Management

Academic Core Competencies:

- **Microbiology & Biotechnology:** Pharmaceutical Microbiology, Pharmaceutical Biotechnology.
- **Biological Chemistry:** Biochemistry, Medicinal Biochemistry.
- **Curriculum Development:** Designing lesson plans, question papers, and schematic valuations.

PUBLICATIONS & INTELLECTUAL PROPERTY

Books & Patents

- **Textbook:** [A Textbook of Pharmaceutical Biotechnology](#), Shashwat Publication, January 6, 2025. ISBN: 978-93-6087-778-1.
- **Patent (2025):** [Evaluation of anti-obesity potential of Capparis Spinosa by using hydroalcoholic solvent](#), Application no: 202541012406 A, Dated: 21/02/2025.
- **Patent (2025):** [Nutrigenomics: Exploring the Genes-diet Interface](#), Application No: 202541013498 A, Dated: 28/02/2025.

Research & Review Articles

- Research Journal of Pharmacy and Technology (2024): [Studies on Microbial Biotransformation of Tetracycline by Fungi *Aspergillus niger* and *Candida albicans*](#), 17(5):2201-5. doi: 10.52711/0974-360X.2024.00346.
- International Journal of Pharmacognosy and Phytochemical Research (2023): [Studies on antibacterial activity of non aqueous extract of different species of Citrus fruits seeds against to *Lactobacillus casei*](#), Vol 17, Issue 3.
- YMER Digital (2023): [Studies on factors affecting the microbial biotransformation of Tetracycline in the presence of various Bacteria and Fungi and Immobilized organisms.](#)
- European Chemical Bulletin (2022): [Studies on Biotransformation of Tetracycline in the Presence of *Staphylococcus aureus* and *Escherichia coli*.](#)
- Research Journal of Pharmacy and Technology (2019): [Studies on Antimicrobial activity of a metabolite produced by *Streptomyces malaysiensis* isolated from Termite mound Soil](#), 12(5): 2175-2181. doi: 10.5958/0974-360X.2019.00362.7.
- International Journal of Life Sciences Research (2019): [Antimicrobial Activity of Garlic Extract Studied on *Staphylococcus aureus*, *Klebsiella pneumonia*, *Escherichia coli*, *Candida albicans*.](#)
- International Journal of Pharmaceutical Chemistry and Analysis (2017): [A RP-HPLC method for the simultaneous assay of amlodipine and hydrochlorthiazide in combined dosage form](#), 4(4):101-105.
- International Journal of Pharmaceutical Chemistry and Analysis (2017): [Simultaneous estimation of Ramipril and Olmesartan Medoximil by RP-HPLC method](#), 4(4):106-111.
- World Journal of Pharmaceutical and Life Sciences (2017): [An Article on Counterfeit Medicines \(People are dying every day\).](#)

ACADEMIC ACHIEVEMENTS:

- **Poster Evaluator:** Invited Evaluator at the **72nd Indian Pharmaceutical Congress (IPC)**, Nagpur.
- **BEST RESEARCH SCHOLAR AWARD:** Achieved for oral presentation on "Microbial Biotransformations an overview" at the 18th Indo-US International Conference, M.A.M College of Pharmacy.
- **Presentation Award: 3rd Prize** at the **65th IPC** for "An Essay on Perspective Herbal Medicine and Herbal Supplementation".

- Acted as a Zonal Coordinator for the "Women's Pharma League-2023" (IPA). For south zone in A.P.
- **Fellowships:** Recognized as an AICTE-QIP Fellow during doctoral studies at DIPSAR.

TECHNICAL SKILLS & RESEARCH EXPERTISE:

- Attended for many workshops and conferences, FDPs.
- Participated in the National Conference, on "Recent Advances & Innovations in Drug Discovery to Drug Product Development Stages" sponsored by Katalyst Healthcare & Life Sciences, New Jersey, USA, Organized by Chennupati Indo American School of Pharmacy, Narasaraopet in 2024.
- Pharma women's league-2023 acted as Zonal Coordinator.
- Poster evaluator in the scientific session at 72nd Indian Pharmaceutical Congress held at Department of Pharmaceutical Sciences, 2023.Nagapur.
- Secured 2nd Prize, for oral presentation in the "Pharma Orane 2k23 Conference" in 2023, organized by M.A.M College of Pharmacy, in association withh IPA, held at M.A.M College of Pharmacy, Narasaraopet, A.P.
- Acted as a chairperson in A One week Faculty Development Program on "Computational Approaches applied to Drug Discovery and Drug Product Development." -2022, at M.A.M College of Pharmacy, Narsaraopet.
- Secured I st Prize in Poster presentation entitled "Steroidal Biotransformations: An overview" during 18thh Indo-US International Conference, held at M.A.M College of Pharmacy, organized by APP Madhya Pradesh State Branch and APP American International Branch in collaboration with APP Biotechnology Division, in 2022.
- Honored with Best Research Scholar Award, during 18th Indo-US Conference, held at Narasaraopet, Andhra Pradesh, in 2022.
- Participated and attended the scientific sessions of the 2nd Pharmaceutical Congress-2019 organized by Indian Association of Colleges of Pharmacy, at St.Peter's Institute of Pharmaceutical Sciences, Warangal, Telangana.
- Participated in one day workshop on "Strategic intervention to raise quality of teaching and learning", organized by CMR College of Pharmacy, Hyderabad, in association with Higher Education Skill Development and Research Center in 2019.
- Participated in the National Seminar on "3D Printing of Pharmaceuticals- An Emerging Pharmaceutical Technology" held at Hindu College of Pharmacy in 2018.
- Participated and attended the scientific sessions of the Indian Congress of Pharmacy Practice-2018, held at Hyderabad.
- Presented poster titled"Importance of Herbal Medicine and Herbal Supplementation-Human Life". in the Scientific Sessions of the 9th National IPA student's Congress-2017, at Vikas Institute of Pharmaceutical Sciences, Rajahmundry, A.P.
- Participated in the three day workshop on "Problem based teaching and learning of organic chemistry and analytical chemistry" in 2017, at Chebrolu Hanumaiah Institute of Pharmaceutical Sciences, Guntur, A.P.

- Attended for workshop on “New Mother’s Education Programme” in 2016 organized by The Trained Nurses’ Association of India.
- Secured 3rd prize in National level essay Competition, organized in 65th IPC, 2013.
- Participated in National Level Essay Competition 2014 organized by POWER (Pharmacists Organization for Women Empowerment and Research). at Andhra University.
- Participated in the Focus Group Discussion for preparation of Gender Audit of Andhra University in 2013.
- Participated in the two-day UGC workshop on IN DEFENSE OF WOMEN: Challenges & Solutions in 2013.
- Participated in the softskills and employability skills training (SET) program organized by JNTU, Kakinada in 2011.
- Undergone Fire & Safety training conducted by Kings Institute of Fire & Safety Engineers at Vishwabharathi College of Pharmaceutical Sciences, percerla, in 2010.
- Secured first place in Essay Writing (Telugu) Competition, at K.E.S Polytechnic for Women, vijayawada in 2008.
- **Biotechnology & Molecular Biology:**
 - Expertise in Microbial Biotransformation (Bacterial & Fungal systems).
 - Theoretically Proficient in Recombinant DNA Technology: PCR, ELISA, Blotting techniques, and Gene manipulation, production of Vaccines, Interferons, and Monoclonal Antibodies.
- **Instrumentation (Pharmaceutical & Biotech):**

Familiar with the following instruments. Thermal Cycler, Gel electrophoresis system, Lyophilizer, Bioreactor, automated colony counter, Autoclave, LAF and CO₂ incubator, etc.

ACADEMIC LEADERSHIP & HONORS

- **NAAC Steering Committee Member:** Spearheaded the preparation and documentation for Criteria 3 (Research, Innovations, and Extension) at M.A.M. College of Pharmacy, ensuring institutional compliance with national quality standards.
 - **NBA Accreditation Coordinator:** Led the rigorous data collection and strategic planning for Criteria 3 at A.M. Reddy Memorial College of Pharmacy, focusing on enhancing the institution’s research output and industry-academic partnerships.
 - **Educational Authority:** Appointed Question Paper Setter for JNTU Ananthapur since 2020 for B.Pharm, M.Pharm, and Pharm.D programs.
-

MEMBERSHIP: I HAVE BEEN THE MEMBER OF IPA SINCE 2018

PERSONAL DETAILS

- **Date of Birth:** November 17, 1986
 - **Languages:** English, Hindi, Telugu
 - **Family:** Married & have two Children
 - **Hobbies:** Reading books, playing indoor games.
-

PROFESSIONAL REFERENCES:

Name	Designation & Affiliation	Contact Number	Email Address
Dr. Rao V.S.V. Vadlamudi	Immediate Past President, Commonwealth Pharmacists Association (CPA); Former President, Indian Pharmaceutical Association (IPA)	+91 98665 59321	raovsvv@ipapharma.org
Prof. Sharad Wakode	Professor, Delhi Pharmaceutical Sciences and Research University (DPSRU/DIPSAR)	+91 98114 47255	sharadwakode@dpsru.edu.in
Dr. Ramesh Babu Bodla	Associate Professor, Delhi Institute of Pharmaceutical Sciences and Research (DIPSAR)	+91 98711 26264	rameshbodla@gmail.com
Dr. Ramesh Adepu	Professor & Head, Dept. of Pharmacy Practice, JSS College of Pharmacy, Ooty	+91 94437 01972	adepu63@gmail.com

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

K. Uma maheswari.

Your's sincerely,

