

◆ MODERN EDUCATION SOCIETY'S ◆

NOWROSJEE WADIA COLLEGE, PUNE

FACULTY ACADEMIC PROFILE



AKANKSHA DHANANJAY DAMBARE

Assistant Professor • Department of Biotechnology

Highest Qualification: Ph.D. (Pursuing)

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PROFESSIONAL SNAPSHOT

Prof. Akanksha Dhananjay Dambare, M.Sc. Microbiology, B.Ed., Ph.D. (Pursuing), is an Assistant Professor in the Department of Biotechnology at Nowrosjee Wadia College, Pune. Academic expertise includes undergraduate and postgraduate teaching, practical laboratory training, curriculum development, academic assessment, and research mentoring. Research interests encompass microbial biotechnology, industrial and applied microbiology, microbial enzyme production, antimicrobial activity, and ectoine-producing halophilic bacteria. Professional contributions include scientific publications, research article editing, postgraduate dissertation guidance, and academic coordination, with an emphasis on integrating microbiological research with practical and interdisciplinary applications.

EDUCATION

Qualification	University / Institution	Year
Ph.D. (Pursuing)	Abeda Inamdar Senior College of Arts, Science and Commerce; Savitribai Phule Pune University	Ongoing
B.Ed.	Sharadchandraji Pawar College, Pune; Savitribai Phule Pune University	2026
M.Sc. Microbiology	S.B.B. alias Appasaheb Jedhe Arts, Commerce & Science College, Pune; Savitribai Phule Pune University	2022
B.Sc. Microbiology	S.B.B. alias Appasaheb Jedhe Arts, Commerce & Science College, Pune; Savitribai Phule Pune University	2020

TEACHING & ACADEMIC INTERESTS

- Microbiology
- Microbial Biotechnology
- Industrial and Applied Microbiology
- Environmental Microbiology
- Enzyme Technology
- Antimicrobial Screening
- Extremophiles
- Infectious Disease Diagnostics

RESEARCH & PUBLICATIONS

Research Area: Microbiology, Microbial biotechnology; protease-producing bacteria; antimicrobial activity of microorganisms; ectoine-producing halophilic bacteria.

Selected Publications:

- Exploration of possible antimycotic activity of *Pseudomonas stutzeri* against human pathogenic *Aspergillus* sp. — African Journal of Biological Sciences.
- Investigating the Influence of Potassium Deficiency on Physiological and Biochemical Parameters in Hydroponic Spinach — African Journal of Biomedical Research.
- Antifungal potential of human pathogenic *Blastobotrys* sp. by *Bacillus licheniformis* strain S10 identified using 16S rRNA and first time cultivated on Glycerol Asparagine Agar with implications for NCBI database enhancement — Chinese Journal of Evidence-Based Medicine.

Patent: Portable Infectious Disease Detection Device In plants — Indian patent application

Books published under My Rays Publication: Quality Assurance and Validation in Pharmaceutical Industry; Industrial Wastewater Treatment; Research Methodology; Indian Knowledge System.

ACHIEVEMENTS & PROFESSIONAL DEVELOPMENT

- Best Researcher Award, International Journal of Microbial Science (2023–2024).
- Article Publication Manager: (1) International Journal of Microbial Science (since October 2024).
(2) Clinexel (since June 2026).
- Techniques in Pharmaceutical Microbiology — four-day online course, Bio. Edu. Xperts.
- NEP 2020 workshop at Poona College; workshop on Quick Methods to Detect Food Adulteration.
- Co-organizer, two-day National Seminar on Modern Innovations in Science.
- Attended national seminar on Emerging Trends in Plants, S.P. College (January 2026).
- Active Annual Member, Microbiologist Society, India (2017–2018; ranked 3rd).

ACADEMIC RESPONSIBILITIES

- Teaching undergraduate and postgraduate biotechnology theory and practical courses.
- Academic planning, curriculum implementation, internal evaluation, and departmental coordination.
- Mentoring M.Sc. dissertation projects in experimental design, literature review, data interpretation, and thesis writing.
- Research publication workflow and scientific editing support.
- Laboratory operations, equipment coordination, and student guidance