

RATHOD ABHISHEK BALIRAM

M.Sc. Microbiology (2023-25)

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PROFILE SUMMARY

I am an M.Sc. Microbiology postgraduate with a strong passion for research and teaching in the field of microbiology. During my academic journey I have learned many important Microbiological Techniques. I have also gained hands-on experience as a Quality Intern in the dairy industry, where I learned practical aspects of microbiological testing, including water analysis, food adulteration detection, food sampling, and quality assessment techniques.

My dissertation project work focused on the production of biodegradable bioplastics incorporated with a bioactive compound possessing antioxidant properties, which enhanced my research skills and deepened my interest in sustainable microbiological innovations. I am proficient in a range of microbiological and molecular techniques such as microbial plating, microscopy, and gel electrophoresis, and I have also undertaken skill enhancement courses to broaden my expertise.

Along with strong technical knowledge, I bring effective communication, teamwork, and problem-solving abilities. I aspire to contribute to academia by sharing my knowledge, mentoring students, and engaging in impactful research while continuously exploring advancements in microbiology.

EXAMS QUALIFIED

National Eligibility Test	QUALIFIED	2025
State Eligibility Test	QUALIFIED	2025

EDUCATION

Department of Microbiology, Savitribai Phule Pune University, Pune	68.90 %	2023 - 2025
• Master of Science in Microbiology		
Rajarshi Shahu Mahavidhyalaya, Latur	79.41 %	2020 - 2023
• Bachelor of Science (Microbiology, Botany, Chemistry)		
Rajarshi Shahu Mahavidhyalaya, Latur	61.69 %	2019
• HSc		
Saraswati Vidhyalaya Prakash Nagar, Latur	88.00 %	2017
• SSc		

INTERNSHIPS AND TRAININGS

Quality Control Intern | Natural Sugar and Allied Industries

2024

- In my role as a Quality Control Microbiology Intern, I honed skills in microbial and water testing, regulatory compliance, and sanitation audits. I developed strong analytical abilities, effective communication, and teamwork, thriving in a professional environment while ensuring product safety and quality.

Industrial training of Biofertilizer Production | Green Vitals Biotech

2022

- Developed expertise in biofertilizer production through comprehensive hands-on training, covering processes from small-scale to industrial-scale manufacturing. Gained insights into market requirements and the specific needs of farmers, ensuring alignment with industry standards and agricultural demands.

Beekeeping and Honey Processing Training | Khadi and Village Industries Commission

2022

- Learned about the industry level Beekeeping and Honey collection, making of different flavored honey and Honey products the importance of bees in the environment, their life cycle, Work system and their various types.

RESEARCH PROJECTS

Synthesis and Characterization of Biodegradable Bio-plastic from Waste Bread Incorporated with Bioactive Compound having Antioxidant properties

- Considering the global problems increasing due to petroleum based plastic we need to come up with a sustainable alternative to save the environment, Which indeed is bioplastic. To which we have added some more benefitting factors to give it additional benefits while it helps to save environment.

Determination of the Fatty acids Percentage of different types of oils

- In this UG level Project we worked on profiling of fatty acids present in different types of oils Commonly available in the Market.

COURSES

- Industrial Biofertilizer Production training Course
- Hands on Training for Protein Modeling
- Beekeeping and Honey processing Training By Khadi and Gram Udyog Ayog Pune
- Clinical Hematology
- Fruit processing
- Generative Ai Tools
- MS-CIT and Cyber Security Course

WORKSHOPS | WEBINARS | CONFERENCES

- International conference on Environmental Microbiology by St. Xavier's College, Ranchi
- AI Everywhere: Bridging domains with artificial intelligence By Amazon Web Services
- National conference for interdisciplinary research By Garware college, Pune
- NET SET GATE GO Workshop By Savitribai Phule Pune University
- Round Table Discussions by Microbiologists Society Of India
- International seminar on recent trends in biological sciences
- International Lecture Series by International Researchers
- International Online Talk Session on Environmental Toxicology

EXTRA CURRICULAR ACTIVITIES

- Anti Microbial Resistance Awareness week Campaign
- Treasurer and honorary member of Symbiosis Association and Microbiol Association
- Street Play AMR Week
- Science toon Poster Prize winner
- Digital Educational content Creation
- Won various Sports Championships (3 Gold medals)
- School National Games and Open sports championships.
- All India inter University Weightlifting tournaments.
- National Financial literacy Assessment Test
- Participated in SAHYADRI MAHANATYA
- Won speech and debate competition at school level
- Hosted Cultural programs at university
- Won Kavya Pratiyogita at SPPU

PROFESSIONAL SKILL

- | | | |
|---------------------------|--------------------|--------------------------|
| • Good Lab skills | • Communication | • Problem solving skills |
| • Leadership and Teamwork | • Digital literacy | |

EXPERTISE

- | | | |
|------------------------------|-----------------------|----------------------|
| • Microbiological Techniques | • Gel Electrophoresis | • PCR |
| • Microbial Culturing | • Microscopy | • Good Lab Practices |

LANGUAGES

- | | | |
|--------------------|------------------|--------------------|
| • English (Fluent) | • Hindi (Fluent) | • Marathi (Fluent) |
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