

Mudawat Akshay Shankar

Microbiologist

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Hyderabad, India

PROFILE SUMMARY

"To join a reputed biopharma organization and learn from industry professionals, aiming to develop a strong foundation in biologics manufacturing, quality assurance, and process development."

EDUCATION

Msc. Microbiology

Savitribai Phule Pune University
Pune, Maharashtra. 2023-2025.
Percentage - 72.58%

Bsc. Microbiology

Savitribai Phule Pune University
Pune, Maharashtra - 2020-2023.
Percentage - 70.64%

12th Board,

Maharashtra state board
Pune, Maharashtra- Feb 2020
Percentage - 62.69%

10th Board,

Maharashtra state board
Pune, Maharashtra- March 2018
Percentage - 80%

SKILLS

Basic knowledge of microbiology techniques (streaking, culturing, staining, microscopy).

Aseptic techniques and handling of microbial cultures.

Media preparation and sterilization methods (autoclave, filtration).

Familiarity with laboratory instruments (microscope, centrifuge, spectrophotometer, incubator).

LANGUAGE

- Marathi
- English
- Hindi

PROFESSIONAL EXPERIENCE

Intern | Enzene Biosciences Ltd, Chakan, Pune | 07/2024 - 12/2024

Assist in Cell Culture Activities - Supporting preparation, maintenance, and monitoring of mammalian or microbial cell cultures under aseptic conditions.

Support Bioreactor Operations - Assisting in setup, sampling, monitoring parameters (pH, DO, temperature), and cleaning/sterilization of bioreactors.

Documentation & Record Keeping - Maintaining accurate lab notebooks, experimental data, and adhering to Good Laboratory Practices (GLP)

Data Collection & Analysis Support - Recording experimental observations, assisting in data entry, and supporting basic analysis under supervision.

PROJECT/PUBLICATION

Title: Algal Synthesized TiO₂ Nanoparticles for sustainable Food Packaging

Duration: 3 months

Institution: Annasaheb Magar Mahavidyalaya, Hadapsar, Pune

Role: Researcher

- Developed eco-friendly TiO₂ nanoparticles using algal extracts to create biodegradable, antimicrobial food.
- Characterized nanoparticles using UV-Vis spectroscopy, FTIR, and FESEM EDS to study their properties.
- Assessed antimicrobial activity against food-spoilage microorganisms.
- Evaluated packaging effectiveness in extending food shelf-life.

Independently handled experimental design, microbial testing, data analysis, and documentation.

RESEARCH PUBLICATION & CONFERENCE

Research Publication:

Chavan, K., Sherkar, S., Abnave, G., Bansode, U., Chaudhari, U., Patil, T., Shete, P., Mudawat, A. (2024). "A Review

on Synthesis of TiO₂ from Algal Sample". Abstract Proceedings of SciTech-24: An International Conference on

Sustainable Science and Technology for Tomorrow, 16-20 September 2024, School of Sciences, Woxsen

University, India.

Conference Presentation:

Participated in SciTech-24: International Conference on Sustainable Science and Technology for

Tomorrow, organized by Woxsen University, India (September 2024), and presented a review on TiO₂

nanoparticle synthesis from algal sources.

Algal Synthesized TiO₂ Nanoparticles for Sustainable Food Packaging" - Presented at the Multidisciplinary

International Conference on Sustainable Development: Solutions for the Future, held on 25th February

2025, at Padmashri Manibhai Desai Mahavidyalaya, Uruli Kanchan, Pune.