

Dr. SHWETA MADHVANAND KASHID

Assistant Professor, Department of Biotechnology

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OVERVIEW:	
Qualifications:	Ph.D.(Chemical Biotechnology), MS (Biochemical), BE (Chemical)
Experience:	Teaching -12 years, Research – 6 years
Date of Joining STES:	15/08/2015
Skills and Proficiencies	Whole cell Immobilization, Industrial Biotechnology, Bioreactor
	Design and Hydrodynamics Studies using ASPEN Plus, MFix, Gas
	Chromatographic separations using GC, Biostatistics Using Excel Tools,
	Excellent Communication and Presentation Skills

SIGNIFICANT ACHIEVEMENTS:

- Ranked as number 1 Research Proposal for ASPIRE Grant under Research Mentorship Program in Science & Engineering domain of Savitribai Phule Pune University in August 2019
- Silver medal in Badminton Mixed-Doubles in "Sinhgad Spring Fest-2024 Sports"
- Appreciation for Contribution towards Social cause of Manas Lake desilting and Restoration, Bhugaon, Pune

AREA OF EXPERTISE /RESEARCH INTERESTS:

Biocatalysis, Bioreactor design, Bioprocess development, *In vivo & in vitro* product separation, purification and analysis, Project and Process Costing

NUMBER OF STUDENTS GUIDED:

• UG – 45

RESEARCH PUBLICATIONS/ PATENTS/ BOOKS:

Publication Summary:

- Scopus/ SCI-05
- International Journal: 04
- Conference: 07-International, 02-National
- Book Chapters- 2 (Taylor and Francis Series)
- Book Editor: Innovations in Biotechnology Advancing Science &
- Technology (ISBN- 978-81-974283-8-8)
- Design Patents: Stirrer For Laboratories 420704-001

AI-Enabled Pipette 421120-001

https://scholar.google.com/citations?user=OpjTUKsAAAAJ&hl=en&oi=ao

FUNDED RESEARCH PROJECT:

 Project Title: Improving the productivity of fragrances using biotransformations in fluidised bed reactor (Oct 2019-March 2023)
ASPIRE (Assistance by SPPU for Project-based Innovative Research)
Grant No.18TEC000681: INR 2.87 Lakhs
Savitribai Phule Pune University, Maharashtra, India.
Outcome: Ph.D. Chemical Biotechnology, Reactor Model Fluidised Bed Reactor, UG Projects 6, 3 Scopus Publications

RESEARCH WORK:

- 1. Improving the productivity of fragrances using biotransformations in bioreactors.
- 2. Extraction and purification of Anthocyanin using maharashtrian sources
- 3. Bio-composites of water hyacinth and their biomedical applications

NOTABLE GUIDED PROJECTS:

- Whole cell immobilization of fragrance *producing strains* on Tulsion and Siran beads for fragrance synthesis. (Sponsored by ASPIRE grant SPPU)
- Hydrodynamic studies and optimization in fludised bed reactor using biological media (Sponsored by ASPIRE grant SPPU)
- Improving productivity of fragrances using mixed culture biotransformations in bioreactor. (Sponsored by ASPIRE grant SPPU)
- Anthocyanin extraction and purification using maharashtrian fruit source.

RESOURCE PERSON TO INDUSTRY/ACADEMIA:

- Resource Person in One week Online FDP on "Recent Trends in Bioprocess Technology, SCOE, Pune
- Guest Lecture on "Opportunities in Biochemical Engineers" in MIT, Pune
- Involved in syllabus design of Bioprocess related subjects of Biotechnology
- Involved as an External examiner and Expert panel member for Chemical Engineering subjects in VIT Pune
- Reviewer for the Scopus indexed journal
- Chairman of 6 subjects of B. Tech Biotechnology Course at Savitribai Phule Pune University

SUBJECTS TAUGHT:

- Biochemical Engineering
- Bioseparation Engineering
- Bioprocess Modelling and Simulation
- Fluid Flow Unit Operations
- Heat transfer
- Mass Transfer
- Biomaterials
- Computational Techniques & Biostatistics

FDP/STTP/SDP/WORKSHOPS ORGANIZED AS A COORDINATOR:

- FDP on 'Recent Trends in Bioprocess Technology' in Dept. of Biotechnology held during 15-19th Jan,2024
- National Level Conference on Green Technologies for Sustainable Development (NCGTSD-2016), Pune , 11-12 Mar 2016
- Co-ordinating various IPR Workshops under Institute IPR and Entrepreneurship Cell 2022-2024
- Co-ordinated Virtual Labs, IITB Outreach Workshop at SCOE Nodal Centre 2020-2024

CONFERENCES ATTENDED:

- **7-International** (Paper/Poster Presented)
- **2- National** (Paper/Poster Presented)

FDP/STTP/SDP ATTENDED:

- TEQIP/AICTE sponsored FDP -16
- Spoken Tutorial IIT Bombay sponsored FDP -01(Latex)
- Other 05

RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

Institute Level (SCOE)

- SCOE Sponsorship Committee Member Sinhgad Spring Festival 2024
- Member of committee for Criteria 3 during second cycle of NAAC, 2021
- NAAC Criteria 3 Co ordinator

Department Level (Biotech)

- Department Exam Co-ordinator
- NBA criteria 3 and 5 coordinator
- Department Sponsorship head "Sinhgad Spring Festival 2024"
- NAAC criteria 3 coordinator
- Member of Website Committee
- Member of Central Library Committee
- Member of College Annual Magazine 'Srujan', Faculty Head English section (Received 2 awards on 2018 and 2021 for Best College Magazine)
- Member of Virtual labs Committee
- Member of IPR and Entrepreneurship Cell
- Member of Research Committee
- Class Teacher, Lab In charge and Teacher Guardian
- VAP Coordinator
- Project Coordinator for UG students

DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: 10 / 12/ 2024

Signature