



Dr. MANISHA SHINDE
Assistant Professor, Department of Biotechnology

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OVERVIEW:

Qualifications: Ph.D.(Biotech), MSc (Biotech), BSc (Microbiology) CSIR NET JRF
Experience: Teaching -7.5 years Research Experience excluding PhD-06 years
Date of Joining STES: 17/06/2019
Skills and Proficiencies: Molecular Biology, Agricultural Biotechnology, Microbiology

SIGNIFICANT ACHIEVEMENTS:

- Intellectual acumen offering 18+ years of insightful experience in Research and Teaching
- Accomplished Assistant Professor and Researcher in the field of Biotechnology with a strong focus on experimental research and molecular biology.
- Research Paper Published in International Journals-07; National -04; Citation 119; H Index-5; i10index-04, Book Chapter-01
- International and National Conferences-20+ Best Paper Award
- Project Mentor-10 Projects; Students Publications-Papers in International Journal-02 International Conference-04 National Conference-01 Product Developed-02
- Professional Membership-Microbiologist Society of India

AREA OF EXPERTISE /RESEARCH INTERESTS:

- Molecular Biology, Agricultural Biotechnology

NUMBER OF STUDENTS GUIDED:

- PG – 02 , UG – 10+ Groups

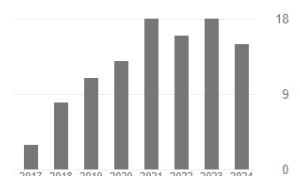
RESEARCH PULICATIONS:

Publication Summary:

Scopus/ SCI-07
International Journal: 05
Conference : 20
h-index : 04
i10 index : 03

<https://scholar.google.com/citations?hl=en&user=AGh7IvkAAAAJ>

	All	Since 2019
Citations	118	91
h-index	5	4
i10-index	4	3



FUNDED RESEARCH PROJECT:

MOU with Green Cultivate Agro Farms Pvt Ltd Manjari Pune. Details of project given in UG Projects

RESEARCH WORK:

Key Deliverables:

- **Research Expertise: Genomics, Transcriptomics, Proteomics, Molecular Markers:** Leveraged your expertise in genomics, transcriptomics, proteomics, and molecular markers (SSR, AFLP) to contribute to the advancement of research in grapevine genetics, disease resistance, and quality enhancement.
- **Viticulture, Wine Grape Disease Management, and Quality Improvement:** Spearheaded efforts in viticulture, focusing on optimizing growth conditions and techniques for wine grape cultivation. Played a pivotal role in enhancing wine grape quality, contributing to the development of protocols to improve taste, aroma, and overall grape attributes.
- **Research and Development Projects: Biotechnology, Plant Physiology, and Plant Pathology:** Contributed to multiple research and development projects funded by prestigious organizations, such as the Department of Biotechnology (DBT) and Indian Research on Grapes and Wine Society (IRGS).
- **DBT Funded Functional Genomics of Grapevines Under Salt Stress Conditions:** Played a key role in a DBT-funded project that aimed to uncover the functional genomics of grapevines under salt stress conditions. This research contributed to a deeper understanding of grapevine responses to environmental stressors.
- **DBT Funded Comparative Proteomics in Salt Stress Grapevines:** Conducted groundbreaking research under a DBT-funded project, focusing on comparative proteomics in grapevines subjected to salt stress. This work shed light on protein-level changes that occur in response to stress.
- **DBT Funded Molecular Characterization of Database on Indian Grape Germplasm:** Contributed to a DBT-funded project focused on molecular characterization of the database on Indian grape germplasm.
- **IRGS Funded Bio Efficacy of Pesticides/Fungicides/PGRs for Grape Quality Improvement:** Led research initiatives funded by the Indian Research on Grapes and Wine Society (IRGS), evaluating the bioefficacy of various pesticides, fungicides, and plant growth regulators (PGRs) to enhance grape quality.

NOTABLE GUIDED PROJECTS:

PG projects:

- Nutritional Assessment of Beetroot Probiotic Elixirs: From Isolation to Sensory Analysis in Functional Beverages (AY 2023-24) HV Desai College MSc Students
- Bioprospecting of bioactive compounds from Trichoderma species (AY2023-24) HV Desai College MSc Students

UG Projects:

- IndiGenesPD- Database of Parkinson's Disease for Indian Population (AY 2023-24) Research paper published paper in Web of Science Journal
- Evaluation of organic compounds on pomegranate for growth, quality and Disease control. (AY 2023-24) Sponsored by Green Cultivate Agro Farms Pvt Ltd, Manjari Pune, Maharashtra. Project Competition 2nd Award

- Effect of nanoformulations on Tomato plants in Growth and Disease Control (AY 2022-23) Sponsored by Green Cultivate Agro Farms Pvt Ltd, Manjari Pune, Maharashtra.
- Molecular Characterization of beta globin gene exon 1 region of Indian Sickle Cell Disease (SCD) Patient (AY 2022-23) Sponsored by Adeetechgene Biotech Pvt. Ltd., Pune.
- Formulation of Biofertilizer using Trichoderma spp. (AY 2021-22)
- Effect of on -farm production of beneficial microorganism on growth, status and health of crops and soil. (AY 201-22). Sponsored by BAIF Development Research Foundation 1st Award in National Conference and research paper published.

RESOURCE PERSON TO INDUSTRY/ACADEMIA:

- Technical Research Projects guidance to Green Cultivate Agro Farms Pvt Ltd, Manjari Pune.
- External Examiner for Molecular Biology and Bioinformatics in MSc Students
- Induction Program Coordinator
- Biosafety in Biotechnology Coordinator
- Professional Society- MSI Coordinator
- Election Duty-PO1 Officer

SUBJECTS TAUGHT:

- Genetics and Molecular Biology
- Molecular Diagnostics
- Microbiology
- Agricultural Biotechnology
- Food Biotechnology

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

- Microbiologist Society of India's sponsored Student chapter and Art Agar Competition Coordinator
- International Conference Industrial Biotechnology Departmental Coordinator

CONFERENCES ATTENDED:

- Indo-Europe Seminar on "Translational Medicine (Stem Cells and Cancer Medicine)" Department of Biotechnology, Sharda School of Engineering and Technology, Sharda University, Greater Noida, NCR, U.P., India on October 25th, 2024.
- Four Weeks International Online Faculty Development Programme on "BIOANALYTICAL TECHNIQUES (Part 2)– Electrophoresis, Spectroscopy & Microbiology Lab Instruments (Phase I)" organized by the Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil from 09th September 2024 – 08th October 2024

FDP/STTP/SDP ATTENDED:

- AICTE/ISTE/IETE sponsored FDP -05
- Spoken Tutorial IIT Bombay sponsored FDP -02
- Coursera - 04
- Technology Network sponsored workshop – 01
- Others -7

RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

Society Level

- Organizing committee member for International International Conference (ITU) held at Sinhgad College of Engineering, Department of Biotechnology
- Committee Member: Sinhgad Spring Fest 2024)

Institute Level (SCOE)

- Working as a Sinhgad Student Council Co-Ordinator of the Institute since April 2022.
- Worked as a Olympus coordinator for SEM I of AY2023-24.
- Worked as team member for Mission 2021 Admission Counselling Cell.

Department Level (Biotechnology)

- Lab In charge for Microbiology, Molecular Biology Laboratory, Teacher Guardian, Class Teacher
- Organizing committee member for various Staff Development Programs & National, International Conferences
- Departmental Result Analysis Committee Coordinator
- Departmental SSC SDP Coordinator
- Project Guide for BE students
- NBA Criterion 7 and 9 Coordinator
- Departmental Techtonic Event Coordinator (Event Best from Puzzle/Quiz)
- Worked as Event Co-Ordinator for FE, SE Induction Program
- Organizing committee member for MSI Student Chapter, Graduation Ceremony.

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
Dr. Manisha Shinde