

Vaishnavi Hanwate

Rajarshi Shahu Mahavidyalaya(autonomous)Latur

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Education

Program	Institution/Board	%/CGPA	Year
<i>Master Of Science</i> (Microbiology) <i>Bachelor Of Science</i>	Rajshri Shahu Mahavidyalaya Latur Latur, Maharashtra	80.00%	2022-24
<i>Secondary School Certificate</i>	Rajshri Shahu Mahavidyalaya Latur Latur, Maharashtra	81.00%	2018-19
	Manik Prabhu Vidyalaya Jewali Latur, Maharashtra	87.20%	2016-17

Key Projects

1. *Bio Cellulose Production*

(M.sc / Guide: Dr. D.V.Vedpathak)

RSML, Latur

- Bacterial cellulose is non-toxic, a biodegradable polymer that is inert to human metabolism. .
- Biocellulose is a valuable biopolymer for the production of food, textiles, medicine, and agriculture due to its unique properties.
- *Biocellulose is a super thin, natural fiber with a diameter of 20 nanometers - 1000 times thinner than the average human hair. Originally developed as an artificial skin to treat severe burns and chronic wounds, Biocellulose is now used for beauty*

2. *ANTIFUNGAL POTENTIAL OF PSEUSOMONAS SPP. AGAINST-SCLEROTIUMS SPECIES.*

RSML, Latur

- AFST is often performed by clinical microbiology laboratories as a tool to aid in the selection of the optimal antifungal agent
- It provides an in vitro measure of susceptibility and resistance by determining the concentration of drug required to inhibit an organism to a specified degree, termed the MIC.

3. *Production of microbial lignin peroxidase (Laccase) for Industrial waste water treatment*

RSML, Latur

- Laccase is a diverse enzyme/biocatalyst belonging to the oxidoreductase group of enzymes produced by microorganisms.
- Its low substrate specificity and monoelectronic oxidation of substrates in a wide range of complexes, it is most commonly used to degrade chemical pollutants.

Skills

- Molecular Biology Techniques
- Immunological Techniques
- Hot Air Oven, ph meter, Autoclave(Handling)
- Spectrometer, calorimeter (Handling)
- UV - Visible Spectrophotometer
- Aseptic technique,HLPC, GC

Additional Information

- Worked as co secretary of student council of Rajarshi Shahu Mahavidyalaya Latur, (autonomous)
- Member of Shahu manasrang mental health club
- Ladies representative of rajarshi Shahu Mahavidyalaya Latur, (autonomous)
- 2 year working experience of organising secretary of microbial association of microbiology department

Achievements

- National level Hands on training cum workshop on Molecular Biology Techniques (With Hi- Media pvt.Ltd. Mumbai and Microbiologist Society India) Technique; 1: Southern Blotting. 2: DNA Fingerprinting 3: General Cloning 4: PCR 5: SDS PAGE 6: Air Monitoring

- Spoken Tutorial Project at IIT Bombay certificate course 1: Biopython training 2: Avogadro training 3: Cell Designer training
- Certificate course on 1) Food Fermentation Technique 2) Chromatography

Others

- Hobbies: Reading Books, Watching web series
- Languages: English , Marathi , Hindi