



Shri Shivaji Shikshan Prasarak Mandal, Barshi's

**SHRI SHIVAJI MAHAVIDYALAYA,
BARSHI**



Dept. of Microbiology

A- Research projects

Sr. No.	Title of project	Principal investigator/Co-PI	Agency	Sanctioned Grant	Status (Completed / Ongoing)
1.	Multistage Utilization of fish waste for the production of value-added products	Dr. Jalkute CB and Dr. Thorat PR	DST- SERB	19,20,000/-	Completed

B- Research Publications

Sr. No.	Year	No. of Publications
1	2018	13
2	2019	05
3	2020	03
4	2021	03
5	2022	04
6	2023	03
7	2024	05
Total Research Publications		36



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Research Publications (2018-24)

SR. No.	Title of paper	Name of the author	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
1	Purification, characterization and application of collagenolytic protease from <i>Bacillus Subtilis</i> strain MPK	Dr. Madhuri Vijay Bhuimbar	Microbiology	Journal of Bioscience and Bioengineering	2024	1347 - 4421
2	Model organisms used for Lipid profiling	Dr. Bajare Jitendra Shahaji	Microbiology	A Journal of Composition Theory	2024	0731- 6755
3	Antimicrobial activity of silver nanoparticles by green synthesis from <i>Ficus benghalensis</i> and <i>Ficus religiosa</i>	Dr. Vishal Ramakant Dhundale	Microbiology	Bulletin of Pure and Applied Sciences	2024	0970- 0765
4	Sustainable textile dyeing a comprehensive review of textile dye pollution and innovative bioremediation	Dr P R Thorat	Microbiology	International Journal of Research and Analytical Reviews	2024	2349- 5138
5	Production of nutrabeverage through fermentation of pomegranate, strawberry and pineapple juices with kefir grains	Dr. Vishal Ramakant Dhundale	Microbiology	International Journal of Pharmaceutical Sciences and Research	2024	0975- 8232
6	Evaluation and exploration of electricity generation by microbial fuel cell	Dr. Vishal Ramakant Dhundale	Microbiology	Ecological Economical Consciousness	2023	0971- 765x

7	Studies on potential application of bio inoculants in agriculture	Dr. Rahul Rajendra Shelke	Microbiology	Plant Archives	2023	2581-6063
8	Review Paper on Characterization and Application of Ornamental plants used in the Treatment of Sewage Effluent Treated Plant,	Dr. Bajare Jitendra Shahaji	Microbiology	Journal of Emerging Technologies and Innovative Research	2023	2349-5162
9	Subtype diversity and emergence of drug resistance in HIV-1 in Solapur district of Maharashtra, India	Dr Dilip Karad	Microbiology	Iranian J Microbiology	2022	2008-3289
10	Friut rot in tomato- A serious threat to tomato production	Mrs Suman Jadhav	Microbiology	Emerging Topics in Life Sciences	2022	2397-8562
11	Production of Organic Liquid Biofertilizer from Fish Waste and Study of its Plant Growth Promoting Effect	Dr.Madhuri Vijay Bhuimbar	Microbiology	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences	2022	0369-8211
12	Subtype diversity and emergence of drug resistance in HIV-1 in Solapur district of Maharashtra, India	Dr Dilip Karad	Microbiology	Iranian J Microbiology	2022	2249-894X
13	Screening plants for medicines against Klebsiella & Pseudomonas species infections	Dr. Rahul Rajendra Shelke	Microbiology	Indian Journal of Microbiology Research	2021	2396-546X
14	Studies on beta lactamase producing multidrug resistant klebsiella species isolated at Dr Jagdale Mama hospital and research center Barshi district Solapur, Maharashtra, India	Dr. Rahul Rajendra Shelke	Microbiology	Asian Journal of research in Chemistry and Pharmaceutical Sciences	2021	2349-7106

15	Studies on Multi Drug Resistant Klebsiella Pneumoniae	Dr. Rahul Rajendra Shelke	Microbiology	Asian Journal of research in Chemistry and Pharmaceutical Sciences	2021	2349-7106
16	Extended and pan-drug resistnce in klebsiella pneumoniae due to carbapenemase and extended spectrum b-lactamase enzymes	Mrs Suman Jadhav	Microbiology	Journal of Medical Science and Clinical Research	2020	2455-0450
17	Molecular characterization of a multidrug-resistant/pandrug-resistant nosocomial polymicrobial infection with klebsiella pneumoniae, Providencia rettgeri and Acinetobacter baumannii from rural Maharashtra, India	Dr Dilip Karad	Microbiology	Biochemica Polonica	2020	1734-154x
18	Optimization of growth kinetics for citric acid production by aspergillus niger using solid state fermentation	Mrs Suman Jadhav	Microbiology	Current Global Reviewer	2020	2319-8648
19	Extraction and characterization of acid soluble collagen from fish waste: Development of collagen-chitosan blend as food packaging film	Dr.Madhuri Vijay Bhuimbar	Microbiology	Journal of Environmental Chemical Engineering	2019	2213-3437
20	Potential applications of medicinal plants against multi drug resistant Klebsiella and Pseudomonas species	Dr. Rahul Rajendra Shelke	Microbiology	International Journal of Recent Scientific Research	2019	0976-3031
21	Studies on biosurfactant producing bacteria from oil contaminated soil	Mrs Suman Jadhav	Microbiology	Current Global Reviewer	2019	2319-8648
22	Microbial decolorization of textile dyes and biodegradation of textile industrial effluent from Solapur city, India	Prof S D Deokar	Microbiology	Current Global Reviewer	2019	2319-8648

23	Phosphate solubilizing bacteria: Sustainable approach for managing phosphorus deficiency in agricultural soil	Prof S D Deokar	Microbiology	Current Global Reviewer	2019	2319-8648
24	Use of statistical experimental methods for optimization of collagenolytic protease production by bacillus cereus strain SUK grown on fish scales	Dr Madhuri Bhuiambar	Microbiology	Environmental Science and Pollution Research	2018	0944-1344
25	Klebseilla pneumoniae LS1 gene for 16S ribosomal RNA, partial sequence	Mrs Suman Jadhav	Microbiology	Partial Sequencing	2018	LC371686
26	Klebseilla pneumoniae LS2 gene for 16S ribosomal RNA, partial sequence	Mrs Suman Jadhav	Microbiology	Partial Sequencing	2018	LC373153
27	Klebseilla pneumoniae LS3 gene for 16S ribosomal RNA, partial sequence	Mrs Suman Jadhav	Microbiology	Partial Sequencing	2018	LC373453
28	Klebseilla pneumoniae LS4 gene for 16S ribosomal RNA, partial sequence	Mrs Suman Jadhav	Microbiology	Partial Sequencing	2018	LC373454
29	Evaluation of bacteriological quality of ice creams and milk shakes marketed in Barshi city, Maharashtra, India	Prof S D Deokar	Microbiology	Current Global Reviewer	2018	2319-8648
30	Bacteriological quality of freshly squeezed sugar cane juices and public health risks vended in Solapur district, Maharashtra, India	Prof S D Deokar	Microbiology	Current Global Reviewer	2018	2319-8648
31	Bioactivity study of Tridax procumbens extracts on Staphylococcus aureus	Prof S D Deokar	Microbiology	Current Global Reviewer	2018	2319-8648

32	In vitro evaluation of antibacterial potential of endophytic bacteria	Mrs Suman Jadhav	Microbiology	Current Global Reviewer	2018	2319-8648
33	Production of flavored banana wine without a fermenter	Mrs Suman Jadhav	Microbiology	Current Global Reviewer	2018	2319-8648
34	Some studies on tube well water quality and bacteriological contamination in Barshi town, MS, India	Prof S D Deokar	Microbiology	Current Global Reviewer	2018	2319-8648
35	Antibacterial Potential of Adhatoda vasika and Bauhinia Racemosa against multidrug resistant klebsiella species	Dr. Rahul Rajendra Shelke	Microbiology	World Journal of Pharmaceutical Research	2018	2277-7105
36	Isolation & Characterization study of feather degrading bacteria	Dr. Rahul Rajendra Shelke	Microbiology	International Journal Pharmacy and Pharmaceutical research (IJPPR)	2018	2349-7203