

Rayat Shikshan Sanstha's

Yashavantrao Chavan Institute of Science, Satara (Autonomous) Lead College of Karmaveer Bhaurao Patil University, Satara

Faculty Profile

General information

Name : Dr. Virdhaval Madhav Nalavade

Designation: Assistant ProfessorDepartment: BiotechnologyEducational Qualification: M.Sc., Ph.D.Date of Appointment: 19/06/2017Teaching Experience: UG: 6 years

PG: 5 years

Research Experience : 14 years

Research Area : Biotechnology (Plant Biotechnology, Phycology,

Bioremediation, Genetic Engineering)

Educational Qualification Details (undergraduate onwards)

Sr. No.	College/University	Degree	Subjects	Year	Class/ Percentage
1	Yashavantrao Chavan Institute of Science, Satara, Shivaji University, Kolhapur, India	B.Sc.	Botany, Subsidiary: Microbiology & Chemistry	2007	I st class/ 62.88 %
	Department of Biotechnology, Shivaji University, Kolhapur, India	M.Sc.	Biotechnology	2009	I st class/ 61.33 %
2	Department of Biochemistry, Shivaji University, Kolhapur, India	PG Diploma	Bioinformatics	2009	I st class/ 63.88 %
3	Department of Biotechnology, Shivaji University, Kolhapur, India	Ph.D.	Biotechnology (Plant Biotechnology, Molecular Biology, Genetic Engineering)	2020	Awarded

Academic and Administrative Responsibilities

Sr. No.	Position	Organization	Date/Duration
1	Member, Board of Studies (BoS) in Biotechnology	YCIS, Satara	June, 2017 – till date
2	Member, ISO Committee	YCIS, Satara	June, 2019 – till date

3	Member, Skill Committee	YCIS, Satara	June, 2020 – till date
4	Member, ED Committee	YCIS, Satara	June, 2021 – till date
5			

$\begin{tabular}{l} \diamondsuit $\underline{Awards/Honors/Recognitions/Scholarship etc.} : \\ \end{tabular}$

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and year
1	Junior Research Fellow	DST, Govt. of India	01-11-2009 - 31-03-2012
2	Qualified GATE (Graduate Aptitude Test in Engineering) in Life Science	IIT, Delhi on behalf of National Coordination Board, Graduate Aptitude Test in Engineering	15, March 2012
3	Late. Madhubhau Chaudhary Fellowship	Praj Industries, Pune, India (Financial support for pursuing PhD. Degree)	2013-2015

Research Projects (Ongoing/Completed)

Sr . N o.	Title of Project	Duration	Amount Sanctio ned	Agency	Status (Ongoing/ Completed	
Ma	jor Research Project					
Mir	Minor Research Project					
1	Isolation and characterization of decomposing microorganisms from soil and their utilization for composting of geranium oil industry waste.	2017-18	17,000	YCIS, Satara Research Advisory Committee Financial Assistance	Completed	
2	Isolation and characterization of extracellular bulk enzymes from spent mushroom substrate and production of organic compost	2018-19	20,000	YCIS, Satara Research Advisory Committee Financial Assistance	Completed	
3	Development of value added products like biofertilizer and biochar for bioremediation of textile dyes from macroalgal waste	2021-22	2,00,000	YCIS, Satara Research Advisory Committee Financial Assistance	Completed	
4	Development of AI based applications for integrated production of plants in solar hydroponics	2022-24	50,000	YCIS, Satara Research Advisory Committee Financial Assistance	Ongoing	

Details of Research Publications

A) Books/Book Chapters

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Text)
1	Sugarcane Transgenics: Developments and Opportunities	Springer Nature Singapore Pte Ltd	2020		Reference (Book Chapter)
2	Algae as Food and Nutraceuticals	CRC Press Taylor & Francis Group	2022		Reference (Book Chapter)

B) Research papers:

Sr · No	Title of paper	Journal/procee ding details (Name, volume, page no, year of publication etc.)	ISSN No	Listed in Scopus/Web of Science/ UGC Care	Impact factor (If any)
1	Detection of Sugarcane Mosaic Virus (ScMV) in diseased Sugarcane using ELISA and RT-PCR Technique	Journal of Pure and Applied Microbiology. 9(1):319-327.		Scopus	0.21
2	Establishment of sterilization method for reducing microbial contamination for emergent quality of sugarcane (<i>Saccharum officinarum</i> L.) in an efficient micropropagation system.	Res. J. Pharm. Biol. Chem. Sci. 7(2): 1122-1135.		Scopus	0.12
3	Standardization of protocol for callus induction, regeneration and genetic transformation of sugarcane (<i>Saccharum Officinarum</i> L) genotype co 86032.	Progressive Res. – An Inter. J. 11 (Special- VI): 4196-4201.		-	-
4	Detection and eradication of major microbial contaminants during callus culture of Sugarcane (<i>Saccharum Officinarum</i> L.) genotype Co 86032.	Res. J. Pharm. Biol. Chem. Sci. 8(1): 1153-1160.		Scopus	0.12
5	Leaf disc assay an important tool for early assessment of abiotic stress tolerance in transgenic sugarcane.	Multilogic in Science. 8 (27): 212-214.			
6	Microbial degradation of poultry feather biomass in a constructed bioreactor and application of	Environmental Science and Pollution		Scopus	

	hydrolysate as bioenhancer to vegetable crops.	Research. https://doi.org/1 0.1007/s11356- 019-06536-6		5.19
7	Elicitor-mediated enhancement of biomass, polyphenols, mangiferin production and antioxidant activities in callus cultures of <i>Salacia chinensis L</i> .	3 Biotech 11: 285.	Scopus	2.8
8	Low Cost Production of <i>Trichoderma</i> viridi by Using Geranium Industry Waste Biomass by Solid State Fermentation.	YCIS Science Research Journal Interdisciplinary: 1(2) 123-132.	-	-
9	Phyco-Remediation of Sugar Mill Effluent using <i>Chlorella vulgaris</i> .	International Journal of Engineering Research & Technology (IJERT): 11(02) 491-494.	-	-

E) Paper Presentation in Conference /Seminar/ Symposia:

Sr. No	Title of paper	Name of the Conference /Seminar/ Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/Stat e /Uni etc.)	Organizing institute
1	Low cost production of Trichoderma viride and Metarhizium anisopliae for inoculum development using solid state fermentation	"National conference on Interdisciplinary Approaches in Life Sciences (NCIALS- 2020)	National	Yashvantrao Chavan Institute of Science, Satara.
2	Low cost production of decomposing microorganisms for inoculum development using solid state fermentation	"National conference on Interdisciplinary Approaches in Life Sciences (NCIALS- 2020)	National	Yashvantrao Chavan Institute of Science, Satara.
3	Green Synthesis of Silver Nanoparticles Using Fermentation Broth Containing Seaweeds Sargassum Spp. and their antibacterial activity and dye degradation ability	International Conference on Nanobiotechnology (ICNB'23) March 17-18, 2023	International	Yashvantrao Chavan Institute of Science, Satara.
4	Production of Biochar From Macroalgal Waste	International Conference on Nanobiotechnology	International	Yashvantrao Chavan

and Its Use for Bioremediation of Textile Dyes	(ICNB'23) March 17-18, 2023		Institute of Science, Satara.
Evaluation of SoMYB18 gene transformed sugarcanelines using ISSR markers	"Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018)" "Multidisciplinary	National	Yashvantrao Chavan Institute of Science, Satara.
Use of microalgae Chlorella vulgaris for the treatment of biomethanated distillery spent wash	"Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018)"	National	Yashvantrao Chavan Institute of Science, Satara.
Evaluation of seaweed liquid fertilizer for abiotic stress tolerance in Fenugreek	"Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018)"	National	Yashvantrao Chavan Institute of Science, Satara.

F) Citation Index

,	Google Scholar	Scopus	Web of Science
Citations	75		
h-index	5		
i10-index	4		

Participation in Orientation/Refresher/FDP/Short Term/Training Programs:

Sr No		Organizing institute	Date
1	Faculty Development Programme on Entrepreneurship	Yashvantrao Chavan Institute of Science, Satara.	28-01-2019 to 07-02-2019

Participation in Conference/Seminar/Symposia/Workshop/Any other programs:

Sr. No.	Name of the event	Organizing institute	Level (Intl/Natl/ State/Uni/Local etc.)	Date
1	Workshop on Abroad Research Opportunities for Students	Savitribai Phule Mahila Mahavidyalaya,Satara	International	08-03-2017
2	Workshop on Innovative Research and Patenting Methodology	Yashvantrao Chavan Institute of Science, Satara.	Local	10-02-2018
3	Recent Advances in Renewable Energy and	Yashvantrao Chavan Institute of Science,	International	05-03-2018 to 06-03-

	Hygiene Devices (RAREHD-2018)	Satara.		2018
4	National conference on Interdisciplinary Approaches in Life Sciences (NCIALS- 2020)	Yashvantrao Chavan Institute of Science, Satara.	National	02-03-2020 to 03-03- 2020
5	Workshop on Rayat Idea Presentation	Yashvantrao Chavan Institute of Science, Satara.	Local	04-03-2020
6	Seminar on National Education Policy-2020	Yashvantrao Chavan Institute of Science, Satara.	National	23-01-2021
7	"Current Approaches in Life Sciences for Sustainable Development (ICCALSSD - 2021)	Yashvantrao Chavan Institute of Science, Satara.	International	19-03-2021 to 20-03- 2021
8	Eat Right Millet Mela	Yashvantrao Chavan Institute of Science, Satara.	Local	13-04-2023

Resource person in Conference/Seminar/Workshop/Any other programs:

S. No.	Title of the event	Level (Intl/Natl/ State/Uni./local etc.)	Organizer	Date
1				
2				

Chaired Sessions in Conference/Seminar/Workshop etc.:

S. No.	Title of the event	Level (Intl/Natl/ State/Uni./local etc.)	Organizer	Date
1				
2				

Signature of Faculty