

FacultyProfile

PersonalDetails

Name	Dr. Vidya Ramesh Hinge	
Designation	Assistant Professor	
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AcademicQualifications

Degree	Specialization	University	Yearof Passing
Ph. D	Biotechnology	SavitribaiPhule Pune University (SPPU, Pune) M.S. (India)	2016
M.Sc.	Agricultural Biotechnology	Anand Agricultural University, Anand (AAU, Anand) (Gujarat) India	2007
B.Sc.	Agriculture	Mahatma PhuleKrishiVidyapeeth, Parbhani (MKPV, Rahuri) M.S. (India)	2005
AdditionalQualification(ifany):AdditionalDegree/Diploma/NET/SET			
ICAR-NET	Basic Plant Science	ASRB (New Delhi)	2010
General Course of IPR	Intellectual Property Rights	World Intellectual Property Organization (WIPO)	2010

ProfessionalExperience

Stream	Years	Stream	Years
Teaching	14 years	Research	16 years
Extension	16 years	Administration	08 years

Area of Research/Interest

1. Plant virus interaction and biotic stress tolerance mechanism in crop plants
2. Drought stress tolerance mechanism in crop plants.

ResearchGuidance

Degree	No.ofStudent & Guided
M.Sc./M.Tech	05
Ph.D.	Nil

Research Accomplishments (Recent Ten Most Important Publications)

Sr.No	Title	Journal	ISSN/ISBN	NAAS Rating
01	GA3 and BAP phytohormone seed priming enhances germination and PEG induced drought stress tolerance in soybean by triggering the expression of osmolytes, antioxidant enzymes and related genes at the early seedling growth stages.	<i>Environmental and Experimental Botany</i> ; 2024; Volume 226, October 2024, 105870	0098-8472	11.70
02	CRISPR-Cas assisted diagnostics of plant viruses and challenges	<i>Virology</i> , 2024 Jun 26;597:110160.	0042-6822	9.70
03	Molecular elucidation of sigatoka disease resistance in diverse banana (<i>Musa</i> spp.) genotypes using molecular markers and genetic diversity analysis	<i>Scientia Horticulturae</i> , 2024; Volume 336, 1 October 2024, 113446	0304-4238	10.30
04	Multiplex molecular marker-assisted analysis of significant pathogens of cotton (<i>Gossypium</i> sp.),	<i>Biocatalysis and Agricultural Biotechnology</i> ; 2023; 47: 102-557	1878-8181	10.00
05	Assessment of genetic diversity and volatile content of commercially grown banana (<i>Musa</i> spp.) cultivars	<i>Scientific Reports</i> , 2022; 12:7979	2045-2322	10.60
06	Engineering Resistance against Viruses in Field Crops Using CRISPRCas9.	<i>Current Genomics</i> , 2021; 214-231.	1389-2029	8.60
07	Sequence analysis of coat protein and molecular profiling of sunflower necrosis virus (SNV) strains from Indian subcontinent.	<i>J. Plant Biochem. Biotechnol.</i> 2018; 27:28-35	0971-7811	7.90
08	Real-time PCR assay for rapid, efficient and accurate detection of <i>Paramyothecium roridum</i> a leaf spot pathogen of <i>Gossypium</i> Species.	<i>J. Plant Biochem. Biotechnol.</i> 2018 27 (2):199-207,	0971-7811	7.90
09	Thirty-three years of 2-acetyl-1-pyrroline, a principal basmati aroma compound in scented rice (<i>Oryza sativa</i> L.): a status review.	<i>Journal of the Science of Food and Agriculture</i> ; 2017; 97 (2), 384-395	0022-5142	10.10
10	Identification of aroma volatiles and understanding 2-acetyl-1-pyrroline biosynthetic mechanism in aromatic mung bean (<i>Vigna radiata</i> (L.) Wilczek).	<i>Physiology and molecular biology of plants</i> , 2017; 23, 443-451.	0971-5894	9.50

Credentials:

Particulars	Numbers	Particulars	Numbers
Research Articles	32	Popular Articles	12
Books / Booklets	01	Book Chapters	05
Research/Technology Recommendations	03	Varieties Developed	-
Patents		Abstracts Published	29
Technical Publication	30		

Significant Achievements(Top Five)

Patent/IP/Technologies/ Varieties/Machineries Developed / Methodologies/ Recommendations	Year
1.Real time PCR based 'VNMKV-BSV-Detect' kit for precise detection of Banana Streak Virus (BSV) in Banana	2022
2. 'VNMKV XAP-DETECT' kit for detection of Oily Spot pathogen in Pomegranate	2016
3. VNMKV Ultra Detect SUN-AB Molecular Detection Kit' in sunflower.	2015

Externally Funded Projects: Implemented/Handled/Assisted

Sr. No	Title of The Project	Funding Agency	Duration	Position	Grant Details (Rs)
1.	Analysis of aroma volatiles and related genes involved in aroma synthesis at different growth stages in scented rice cultivars.	DST, New Delhi	2012-2015	Project Investigator	19.40 Lakhs
2.	Establishment of Modern Biotechnology Laboratory for Sustainable Agricultural Development	Govt of Maharashtra	Ongoing	Co- Project Investigator	585 Lakhs
3.	Establishment of Model Genome Club (MGC) for Sustainable Agricultural Development	RKVY	Ongoing	Co- Project Investigator	46 Lakhs

Awards/Recognitions (Top Five)

1. Woman Scientist- A Fellowship DST, New Delhi(2011-12).
2. Prof. Askeel Love Cash Prize Award (Society of Cytologists and Geneticists), India (2013).
3. M. J. Narsimhan Academic Merit Award contest from west zone (2009).
1. Best Oral Paper Award in International Conference on "Recent Advances in Food, Herbal and Nanotechnology", January 12-13,(2018).
2. Best Poster paper Award in National Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17-18th November, (2021).