

About

Having about 09 years of experience in Detection and diagnosis and identification of Plant Pathogen and management of major plant diseases. Presently working as Assistant Director, Plant Health Management (Horti. and Flori.) and engaged in taking classes and conducting trainings related to Mass production and on-farm production of Biofungicides (*Trichoderma* and *Pseudomonas*) used in plant disease management.

Educational Qualifications & Achievements

QUALIFICATION	YEAR	UNIVERSITY
PhD in Plant Pathology	2014	University of Agricultural Sciences, Bangalore
M Sc.(Agri.) in Plant Pathology	2009	University of Agricultural Sciences, Bangalore
BSc(Agri.)	2007	University of Agricultural Sciences, Dharwad

Technical Skills

- Plant pathogen identification using DNA fingerprinting techniques
- ELISA based detection of Plant Pathogens
- PCR based detection of Plant Pathogens
- Quality certification of tissue culture raised plants
- Diagnosis of Plant diseases and recommendation of management practices
- Handling of NCSTCP Online Portal
- Literature in local languages on IDM modules of important crops
- Development of content for IPM practices for hosting in website and apps
- Mass production of Microbial biopesticides used in plant disease management
- Preliminary bioinformatics knowledge viz., use of MEGA, Bioedit soft wares and use of NCBI website and submission of Gene sequences in Genbank
- 3 years teaching experience for graduate and post graduate students

Professional Experience

Office/Instt./ Organisation	Post held	From	To	Nature of duties performed
UAS Bangalore	SRF	January, 2010	June, 2010	Certification of tissue culture plants for freeness from viruses
IIHR, Hesarghatta	SRF	February, 2011	July, 2011	Survey isolation identification of Fungal diseases of banana and their management
UAS, Bangalore	SRF	December, 2014	March, 2015	Molecular detection of viruses and phytoplasma infecting

				sugarcane
UAS, Bangalore	Contract Scientist	April, 2015	Sept. 2015	Certification of tissue culture plants for freeness from viruses mainly Banana, Bamboo, Gerbera and sugarcane
UAS, Bangalore	Project Scientist	01.10.2015	20.09.2021	Certification of tissue culture plants for freeness from viruses mainly Banana, Bamboo, Gerbera and sugarcane
NIPHM, Hyderabad	Assistant Director PHM- H&F	21.09.2021	Till date	Capacity building programs on Mass production of bio fungicides and Plant Health Management in Horticulture Crops

Research Areas of Interest

Plant disease diagnostics

Plant virology

Bio fungicides and biological control of Plant diseases

Molecular Plant Pathology

Research / Paper Publications & Patents:

Sl. No.	Title of publication	Year of Publication	Name of Journal
1.	Sources of genetic variations in plant virus populations	2010	Journal of pure and applied microbiology, Volume 4(2), 803-808.
2.	Biological and chemical management of burrowing nematode (<i>Radopholous similis</i> (Cobb, 1893)) on Banana	2011	Ecology and environment, Volume 29 (1A), 351-354.
3.	Molecular Detection And Partial Characterization of Begomovirus Associated With Yellow Mosaic Disease Of Pole Bean (<i>Phaseolus Vulgaris</i> L.) In Southern India	2015	Journal of pure and applied microbiology, Volume 9 (Spl. Edition), 227-235.
4.	Detection of Phytoplasma associated with parthenium phyllody disease	2015	Research Journal of Agriculture Sciences, Volume 6(3), 2015, 693-696.
5.	Survey and host range studies of yellow mosaic virus infecting lima bean (<i>Phaseolus lunatus</i> L.)	2015	Trends in biosciences, Volume 8(17), 4467-4473.
6.			
7.	Morphological and molecular characterization of somaclonal variants in tissue culture banana variety Grand Naine	2016	Advances in Applied sciences, Vol. 5(4), 1205-1210.
8.	Coat protein and movement protein based characterization of Lima bean yellow mosaic virus disease in Karnataka (India)	2016	Legume Research, 40 (2) 2017 : 358-363.
9.	Survey and host range of yellow mosaic virus	2016	The Bio scan, 11(4): 2765-2769.

	infecting cucumber (<i>Cucumis sativus</i> L.)		
10.	Molecular detection and identification of with yellow mosaic disease of Tomato leaf curl New Delhi virus ridge gourd <i>Luffa accutangula</i> L.) yellow mosaic disease based on coat protein gene	2016	International Journal of Agriculture Sciences, Volume 8, Issue 61, 2016, pp.- 3444-3449.
11.	Molecular Characterization of CMV Infecting Banana from Karnataka Based on Complete Coat Protein Gene Sequence	2017	<i>International Journal of Current Microbiology and Applied Sciences</i> Volume 6 Number 11. PP 01-06
12.	Efficacy of Fungal and Bacterial Bio-control Agents on Ganoderma Spp. Causing Foot Rot of Arecanut	2017	International Journal of Agriculture Innovations and Research, Volume 6, Issue 2
13.	Survey for assessing the status of incidence of virus diseases in tissue culture and sucker propagated banana gardens	2018	Indian Journal of Plant Protection Vol. 46 No. 2-4, 2018 (182-190)
14.	Virulence analysis and influence of soil pattern and agronomic practices with respect to Ganoderma foot rot of arecanut in southern Karnataka	2018	Journal of Plantation Crops, 2018, 46(1):
15.	Molecular Relationship of Niger Phytoplasma with Pigeonpea and Parthenium Phyllody Phytoplasmas	2018	International Journal of Pure and Applied Biosciences. 6 (6): 1281-1285.
16.	Identification of stable sources of resistance to mungbean yellow mosaic virus (MYMV) disease in mungbean [<i>Vigna radiata</i> (L.) Wilczek]	2019	Plant Genetic Resources: Characterization and Utilization; 1-9
17.	Molecular Detection and Characterization of Niger [<i>Guizotia abyssinica</i> (L.f.) Cass] Phyllody Phytoplasma	2019	International Journal of Current Microbiology and Applied Sciences 8(2): 1572-1579.
18.	P1 protein (Partial) sequence comparison of South Indian isolates of Papaya ringspot virus	2019	Journal of Pharmacognosy and Phytochemistry, 2019; 8(6): 1680-1685
19.	Screening of Soybean Genotypes to Soybean Yellow Mosaic Virus Disease	2020	International Journal of Current Microbiology and Applied Sciences: 9(3): 2070-2076
20.	Review of Genus Ganoderma causing Basal Stem Rot (Coconut) and Foot Rot (Arecanut) with Respect Etiology and Management	2020	Int.J.Curr.Microbiol.App.Sci (2020) 9(4): 1434-1455
21.	Species diversity of Ganoderma causing foot rot of arecanut in southern dry tracts of Karnataka	2020	Journal of Environmental Biology, Volume 42, 192-202
22.	RCA-based Detection of Begomoviruses in Weed Genera Associated with Legumes in Southern Karnataka	2021	Legume Research - An International Journal, Volume 45 Issue 2 : 237-245
23.	Morpho-Molecular Identification of <i>Lasiodiplodia theobromae</i> Causing Root Rot of Mulberry in India	2022	National Academy Science Letters 45(18)

24.	Morphological and molecular diversity of Ganoderma spp. causing basal stem rot of coconut in Southern dry tracts of Karnataka	2022	Journal of Horticultural Sciences, 17(2): 436-447.
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Professional Membership

Life Sciences Society

Science and tech society for integrated rural development

Advanced trainings

- Completed 6 advanced training at IARI, NEW Delhi on Plant Virus Diagnostics and genetic fidelity testing of tissue culture raised plants
- Served as mentor in a 10 days advanced training on “Hands on training on advanced diagnostic methods for diagnosis of plant diseases” at UAS, GKVK, Bangalore
- Served as trainer in 4 one day training programme on “Use of ICT tools in integrated pest management” at Department of Plant Pathology, UAS, GKVK, Bangalore

Awards / Honours

- ICAR JRF FELLOWSHIP for Master's degree
- University Gold medals in master’s degree
- Prestigious DST-INSPIRE FELLOWSHIP for PhD by GOI
- Young pathologist award by Life Sciences Society
- Best doctoral degree dissertation award by science and tech society for integrated rural development
- Young scientist award by Society for scientific development in Agriculture and Technology

Notable Contributions

- Tested more than 1, 00,000 tissue culture samples of Banana, Bamboo, Gerbera and other ornamentals for viruses under certification program
- Characterised more than 20 viruses infecting Legumes, oil seeds, fruit crops and vegetables.
- More than 100 nucleotide sequences of Viruses, fungi and phytoplasma infecting plants and white fly sequences submitted in NCBI
- Android apps depicting IPM practices for the crops mentioned in were developed and uploaded in play store (RICE, MAIZE, BANANA, PAPAYA, POMEGRANATE, GRAPE, PULSES etc.)
- Trained Officers, Farmers and students on Production protocol and methods of application of Bio fungicides

Contact Details

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