

Hierarchy of PG Students Earned Degree from Department

Ph.D.	M.Sc. (Agri.) / M. Sc.	Other University/ Institutions students dissertation	Total
20	33	11	64

Sr. No.	Title of Thesis	Name of student	Major Guide	Year	Research Area	Current Status
Ph.D.						
1.	Perspective of beneficial invertebrate Myco-pathogens viz. <i>Trichoderma</i> , <i>Paecilomyces</i> , <i>Beauveria</i> and <i>Metarhizium</i> as plant growth promoting rhizosphere inoculants for Groundnut (<i>Arachis hypogaea</i> L.)	Shukla Rachana M.	Dr. Vyas R. V.	2010	Biofertilizer cum Biopesticide	Assistant Professor at Private University
2.	Isolation and characterization of phosphate solubilizing bacteria comparing PGPR traits from cultivated as well as non-cultivated soil.	Patel Hiren K.	Dr. Vyas R. V.	2012	Biofertilizer	Assistant Professor at AAU
3.	Isolation and characterization of methylo-trophic bacteria from wetland paddy ecosystem and their plant growth promoting rhizobacterial (PGPR) traits.	Jhala Yogeshvari K.	Dr. Vyas R. V.	2013	Bio Degradar	Assistant Professor at AAU
4.	Development of <i>Azospirillum</i> liquid bio-inoculants fortified with micronutrients & their assessment on tomato (<i>Lycopersicon esculentum</i> L.).	Gupta Dipmala G.	Dr. Vyas R. V.	2013	Biofertilizer	SRF at ICAR-DM&A, Boriavi
5.	Potash mobilizing bacteria and its efficacy on potato (<i>Solanum tuberosum</i> L.).	Chetna Kumari	Dr. Vyas R. V.	2013	Biofertilizer	-
6.	Mass Production Technology of <i>Azotobacter</i> in Laboratory Fermentor on Agro-industrial Wastes with Assessment of Alginate and Poly- β -hydroxybutyrate (PHB) Production Potential.	Patel Keyur T.	Dr. Vyas R. V.	2014	Biofertilizer	RA at AAU
7.	Formulation of bacterial and fungal biodegraders consortia for effective decomposition of agricultural wastes to	Bhumika Dabhi K.	Dr. Vyas R. V.	2014	Bio Degradar	Laboratory Technician at AAU

	obtain nutritive organic compost.					
8.	Isolation, characterization and efficacy of indigenous fluorescent pseudomonas as biocontrol agent from middle Gujarat.	Parvez Naoushad	Dr. Vyas R. V.	2014	Biopesticide	Working with National Innovation Foundation
9.	Characterization of indigenous <i>Rhizobium</i> with their PGPR qualities and effect on green gram (<i>Vigna radiate</i> L.).	Bhatt Shraddha B.	Dr. Vyas R. V.	2014	Biofertilizer	Assistant Professor at JAU
10.	Plant growth promotion, translocation of iron and zinc, prevention of <i>Fusarium</i> wilt disease by native <i>Rhizobium</i> isolates in chickpea varieties.	Panchal Sneha J.	Dr. Vyas R. V.	2014	Biofertilizer	Assistant Professor at AAU
11.	Impact of Transgenic <i>Bt</i> cotton toxin on soil ecosystem in different soil types with special reference to Middle Gujarat.	Pathak Leena	Dr. Vyas R. V.	2015	Biopesticide	Working with Private School
12.	Diazotroph isolation and nifH gene expression from rhizosphere of rice (<i>Oryza sativa</i> L.)	Patel Armi R.	Dr. Vyas R. V.	2016	Biofertilizer	Working at USA
13.	Consortium development from phyllospheric and rhizospheric methylotrophic bacteria of paddy as liquid plant probiotics and its efficacy on cv. Gurjari	Prajapati Ronak R	Dr. Vyas R. V.	2016	Biofertilizer	RA at AAU
14.	Efficacy of native PGPR consortium and fortified formulations by phyto-extracts for management of soil borne disease complex with special emphasis on root knot nematode in cucumber (<i>Cucumis sativus</i> L.)	Panpatte Deepak G.	Mrs. Shelat H. N.	2017	Biopesticides	Self employed
15.	Plant growth promoting rhizospheric bacterial isolation, characterization and consortium development for potash mobilization and its efficacy in Maize (<i>Zea mays</i> L.)	Patel Ankit S.	Mrs. Shelat H. N.	2018	Biofertilizer	SRF at AAU
16.	Isolation and characterization of bacterial endophytes from medicinal plants and ascertain their PGP efficacy in Ashwagandha (<i>Withania somnifera</i> (L.) Dunal)	Ramanuj Krupali B.	Mrs. Shelat H. N.	2018	Biofertilizer	RA GSBTM
17.	Isolation, characterization and co-inoculation effect of root nodule non-	Dhole Archana M.	Mrs. Shelat H. N.	2019	Biofertilizer	SRF at ICAR-NRC for grapes

	rhizobial endophytes and <i>Rhizobium</i> in green gram (<i>Vigna radiata</i> L.)					
18.	Fungal biofertilizers for preparation of P and K rich organic mineral manures and their efficacy in maize	Solanki Jayvir P.	Dr. R. V. Vyas	2021	Fungal biofertilizer and enriched manure	Agri-entrepreneur having own Bio-Input manufacturing facility
19.	Development of microbial biodegrader formulations for effective management of rice residue	Routrey Soumya	Mrs. Shelat H. N.	2022	In situ degradation of rice agro-waste	RA at ICAR-CRRI
20.	Isolation, characterization of saline tolerant native bacterial PGPB strains and their efficacy on wheat (<i>Triticum aestivum</i>)	Saiyad Mohsin M.	Dr. R. V. Vyas	2023	Salt tolerant PGPB	Agriculture Officer at AAU
M.Sc. (Agri.) / M.Sc.						
1.	Sulphur oxidizing Bacterial Influence on augmentation of Groundnut (<i>Arachis hypogaea</i> L.).	Gandhi Pooja A.	Dr. M. S. Vora	2005	Sulphur biofertilizer	Associate Scientist III at University of Texas, USA
2.	Field efficacy of liquid formulation of <i>Azotobacter chroococcum</i> and <i>Azospirillum lipoferum</i> on Brinjal (<i>Solanum melongena</i> L.).	Saiyad Mohsinali M.	Dr. M. S. Vora	2007	Biofertilizer	Agriculture Officer at AAU
3.	Characterization of native <i>Bacillus thuringiensis</i> isolates from soils of middle Gujarat region.	Patel Hiren K.	Dr. H. G. Vyas	2007	Biopesticide	Assistant Professor at AAU
4.	Isolation and characterization of siderophore producing bacteria from soils of middle Gujarat.	Bhatt Shraddha B.	Dr. H. G. Vyas	2008	Biofertilizer	Assistant Professor at JAU
5.	Microorganisms as biopesticide for insects infesting Pigeonpea [<i>Cajanus cajan</i> (L.) Millasp].	Ravindra Sharma	Dr. R. V. Vyas	2007	Biopesticide	Working with SBI
6.	<i>Azotobacter chroococcum</i> (ABA-1) formulations, their shelf life and effect on growth of pearl millet.	Acharya Payal G.	Mrs. H. N. Shelat	2008	Biofertilizer	Biofertilizer Production manager at GAIC
7.	Biodiversity of plastic adoring microorganisms at Anand and their appraisal on biodegradable polyethylene.	Kushwah Poonam A.	Dr. R. V. Vyas	2008	Plastic biodegradation	Teacher in Private School
8.	Studies on Genomic Variation and Bioefficacy of Some Geographic Isolates of <i>Helicoverpa armigera</i> Nuclear Polyhedrosis Virus.	Patel Charmi S.	Dr.J. J. Jani	2008	Biopesticide	Working at USA
9.	Molecular characterization, mass production and	Rahul Amin	Dr. R. V. Vyas	2009	Biopesticide	Working with BOB

	bioefficacy of native <i>Bacillus thuringiensis</i> spp. against <i>Spodoptera litura</i> .					
10.	Isolation, characterization and efficacy testing of <i>Acetobacter</i> and <i>Azospirillum</i> isolates on maize (<i>Zea mays L.</i>).	Jhala Yogeshvari K.	Mrs. H. N. Shelat	2009	Biofertilizer	Assistant Professor at AAU
11.	Plant growth promoting activity of IAA and GA ₃ producing <i>Azospirillum</i> spp. and <i>Acetobacter</i> spp. on Maize (<i>Zea may L.</i>).	Gupta Dipmala G.	Mrs. H. N. Shelat	2009	Biofertilizer	SRF at ICAR-DM&A, Boriavi
12.	Detection of <i>nifH</i> gene, preliminary characterization by ARDRA and protein profiling of native diazotrophs <i>Azotobacter</i> , <i>Acetobacter</i> and <i>Azospirillum</i> .	Prajapati Ronak R.	Dr. R. V. Vyas	2012	Biofertilizer	RA at AAU
13.	Isolation, Identification and Bioefficacy of Native Entomopathogenic <i>Bacillus thuringiensis</i> from Soil.	Patel Ankit S.	Mrs. H. N. Shelat	2013	Biopesticide	SRF at AAU
14.	Isolation of plant growth promoting endophytic bacteria from potato (<i>Solanum tuberosum L.</i>), and their <i>in vitro</i> efficacy with antagonistic competency	Pandya Hetal A.	Mrs. H. N. Shelat	2013	Biofertilizer	Laboratory Technician at AAU
15.	Diversity of native rhizospheric fluorescent <i>Pseudomonas</i> and their biocontrol potential against some soil borne fungal pathogens.	Panpatte Deepak G.	Mrs. H. N. Shelat	2014	Fungi biocontrol	Assistant Professor at Privet Agriculture College
16.	Isolation and characterization of non-rhizobial endophytic Plant Growth Promoting Bacteria (PGPB) from root nodules of leguminous crops and their efficacy in groundnut (<i>Arachis hypogaea L.</i>).	Dhole Archana M.	Mrs. H. N. Shelat	2014	<i>Rhizobium</i> - non <i>Rhizobium</i> interaction (Biofertilizer)	SRF at ICAR-NRC for grapes
17.	Production of Lactic acid by native <i>Lactobacillus</i> sp. from agricultural and dairy wastes.	Khatri Kuldeep J.	Mrs. H. N. Shelat	2014	Biofertilizer	Working with National Innovation Foundation
18.	Isolation, Characterization & Efficacy of Native Phosphate Solubilizing Bacteria in Chilli (<i>Capsicum Annuum L.</i>).	Inamke Ritesh S.	Mrs. H. N. Shelat	2014	Phosphate biofertilizer	Serving in private sector.
19.	Agriculturally Beneficial Bacterial Isolates from panchagavya and establishing their PGP	Panchal Vaibhav V.	Mrs. H. N. Shelat	2016	Biofertilizer	Self employed

	role in chilli (<i>Capsicum annuum</i> L.)					
20.	Isolation and characterization of rhizospheric bacteria from medicinal plant and their efficacy for plant growth promotion in Kalmegh (<i>Andrographis paniculata</i>)	Kunjadiya Parita K.	Mrs. H. N. Shelat	2016	Biofertilizer	-
21.	Development of azolla based PGPB biogranules and its efficacy in okra	Patel Megha R.	Mrs. H. N. Shelat	2018	Biofertilizer	-
22.	Isolation of Pink Pigmented Facultative Methylootrophs (PPFMs) from the phyllosphere of solanaceous crops and its efficacy on tomato, brinjal and chilli	Solanki Jayvirsinh P.	Dr. R. V. Vyas	2018	Methane bioremediation and biofertilizer	Agri-entrepreneur having own Bio-Input manufacturing facility
23.	Isolation and characterization of lignocellulose biodegrading bacteria from <i>beejamrut</i> and <i>jeevamrut</i> and their efficacy on rice agro-waste	Nisarata Roshan S.	Mrs. H. N. Shelat	2018	Agro-waste Biodecomposition	Working at Cotton Corporation of India
24.	Influence of insecticides, fungicides and herbicides on Bio-NPK bacterial consortium <i>in vitro</i> and in pots on cotton	Manva Fizan S.	Dr. R. V. Vyas	2018	Microbe-Agrochemical interaction (Biofertilizer)	Serving in private sector.
25.	Isolation and efficacy of native bacterial and fungal biodegraders for decomposition of cotton (Bt) waste	Patel Harsh J.	Dr. R. V. Vyas	2019	Agro-waste Biodecomposition	Self Employed
26.	Pycoremediation of heavy metals by biofuel producing algae	Kamaliya Sagar	Dr. Y. K. Jhala	2021	Heavy metal bioremediation and biofuel	Serving in private sector.
27.	Efficacy of pesticide degrading native bacteria as PGPR in maize (<i>Zea mays</i> L.)	Patel Tasvir M.	Dr. H. K. Patel	2021	Pesticide degradation and PGPR	Serving in private sector.
28.	Isolation, characterization and effect of sulphur oxidizing bacteria in Mustard (<i>Brassica juncea</i> L.)	Dhameliya Mayur P.	Mrs. H. N. Shelat	2022	Biofertilizer for micronutrient	Serving in private sector.
29.	Effect of iron oxide (FeO) nanoparticles on microbial decomposition of rice crop residue	Bhimani Mohit V.	Dr. H. K. Patel	2022	Agro-waste Biodecomposition	Serving in private sector.
30.	Biofilm forming cyanobacteria combined with bacterial biofertilizers and their effect on wheat (<i>Triticum aestivum</i> L.)	Sharmathi V.	Dr. Y. K. Jhala	2022	Cyanobacterial biofertilizer	Working at state agriculture department
31.	Salt stress alleviating potential and plant growth promotion by	Chaudhary Priyanka J.	Dr. Raghunandan B. L.	2022	Salt tolerant PGPF	Serving in private sector.

	entomopathogenic fungus <i>Metarhizium</i> sp.					
32.	Zinc Solubilizing and Sulphur Oxidizing Bacteria as Plant Probiotic for Summer Groundnut	Kandoriya P. J.	Dr. H. K. Patel	2023	Biofertilizer for micronutrient	Pursuing higher education (Ph.D.)
33.	Halotolerant <i>Bacillus</i> species as a bio-stimulant to alleviate salinity stress in chickpea (<i>Cicer arietinum</i> L.)	Pallavi K.M.	Dr. Raghunandan B. L.	2023	Salt tolerant PGPB	Working at state agriculture department
M. Sc. by Students of other Institutions / Universities performed dissertation at department						
	Production of Poly (3-Hydroxyalkanoates) by <i>Azotobacter</i> spp. utilizing agro-waste as substrate and its biodegradability <i>in vitro</i>	Bhatt Megha A.	Dr. Vyas R. V.	2012	Bio Fertilizer	Assistant Professor at Private University
2.	Studies on Screening, Production, Purification and Characterization of Alkaline protease from <i>Cellulomonas cartae</i>	Trivedi Shruti R.	Dr. Vyas R. V.	2012	Bio Degradar	-
3.	Enumeration and molecular detection of beneficial microbial community applied as consortium in crops through pot experiments	Patel Ekta M.	Dr. Vyas R. V.	2013	Bio Fertilizer	Working at USA
4.	Comparative efficiency of five phosphate (P) and potash (K) solubilizing bacteria and their key enzymes useful for enhancing soil fertility	Saiyad Sajid A.	Dr. Vyas R. V.	2014	Bio Fertilizer	Working as Young Professional at AAU
5.	Role of Agriculturally Beneficial fungi viz. <i>Trichoderma harzianum</i> , <i>Trichoderma viridae</i> , <i>Paecilomyces lilacinus</i> , <i>Verticillium lecani</i> , <i>Aspergillus wentii</i> and <i>Emericella nidulans</i> for Potash Solubilization	Parida Bharti K.	Dr. Vyas R. V.	2015	Bio Fertilizer	Working at USA
6.	Evaluation of antagonistic potential of actinomycetes against phytopathogenic fungi	Patel Ishita B.	Dr. Jhala Y. K.	2019	PGPR	Working at AAU
7.	Exploration of native lignocellulolytic actinobacteria and their evaluation as biodegrader of water hyacinth biomass	Patel Meet H.	Dr. Patel H. K.	2019	Biodegradation	Working as Biofertilizer Production Manager at NBCL
8.	Compatibility of nanoparticles and nanoemulsion with agriculturally beneficial microorganisms	Patel Madhuri C.	Dr. Jhala Y. K.	2020	PGPR	-
9.	Composting of tea waste using microbial consortium and its	Mistry Nishi P.	Dr. Patel H. K.	2020	Biodegradation	Serving in private sector

	efficiency for growth promotion in onion					
10.	Green synthesis of silver and iron nanoparticle using microalgae	Shah Jeet	Dr. Y. K. Jhala	2021	Microbial synthesis of Nanoparticle	-
11.	Antifungal activity of ZSB-ZnO nanoparticles against soil borne phytopathogenic fungi and their effect on maize plant growth promotion <i>in vitro</i>	Shukla Khyati B.	Dr. H. K. Patel	2021	Nanoparticle – Microbe interaction	Serving in private sector