Hierarchy of PG Students Earned Degree from Department

Ph.D.	M.Sc. (Agri.) / M. Sc.	Other University/ Institutions students dissertation	Total
18	27	11	56

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*. *Trichoderma*, *Paecilomyces*, *Beauveria* and *Metarhizium* as plant growth promoting rhizosphere inoculants for Groundnut (*Arachis hypogaea* 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 comparising 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 methylotrophic bacteria from wetland paddy ecosystem and their plant growth promoting rhizobacterial (PGPR) traits.	Jhala Yogeshvari K.	Dr. Vyas R. V.	2013	Bio Degrader	Assistant Professor at AAU
4.	Development of *Azospirillium* liquid bio-inoculants fortified with micronutrients & their assessment on tomato (*Lycopersicon esculentum* 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 (*Solanum tuberosum* L.).	Chetna Kumari	Dr. Vyas R. V.	2013	Biofertilizer	-
6.	Mass Production Technology of *Azotobacter* 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 obtain nutritive organic compost.	Bhumika Dabhi K.	Dr. Vyas R. V.	2014	Bio Degrader	Laboratory Technician at AAU
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 *Rhizobium* with their PGPR qualities and effect on green gram (*Vigna radiate* 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 *Fusarium* wilt disease by native *Rhizobium* isolates in chickpea varieties.	Panchal Sneha J.	Dr. Vyas R. V.	2014	Biofertilizer	Assistant Professor at AAU
11.	Impact of Transgenic *Bt* 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 (*Oryza sativa* 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 (*Cucumis sativus* 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 (Zea mays L.)	Patel Ankit S.	Mrs. Shelat H. N.	2018	Biofertilizer	SRF at AAU
16.	Isolation and characterization of bacterial endophytes from medicinal plants and acertain their PGP efficacy in Ashwagandha (*Withania somnifera* (L.) Dunal)	Ramanuj Krupali B.	Mrs. Shelat H. N.	2018	Biofertilizer	RA GSBTM
17.	Isolation, characterization and co-inoculation effect of root nodule non-rhizobial endophytes and *Rhizobium* in green gram (*Vigna radiata* L.)	Dhole Archana M.	Mrs. Shelat H. N.	2019	Biofertilizer	SRF at ICAR-NRC for grapes
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	Working as R&D officer at Bio-Input manufacturer
M.Sc. (Agri.) / M.Sc.						
1.	Sulphur oxidizing Bacterial Influence on augmentation of Groundnut (*Arachis*	Gandhi Pooja A.	Dr. M. S. Vora	2005	Sulphur biofertilizer	Associate Scientist III at University

	hypogeae L.).					of Texas, USA
2.	Field efficacy of liquid formulation of *Azotobacter chroococcum* and *Azospirillum lipoferum* on Brinjal (*Solanum melongena* L).	Saiyad Mohsinali M.	Dr. M. S. Vora	2007	Biofertilizer	Agriculture Officer at AAU
3.	Characterization of native *Bacillus thuringiensis* 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 [*Cajanus cajan* (L.) Millasp].	Ravindra Sharma	Dr. R. V. Vyas	2007	Biopesticide	Working with SBI
6.	*Azotobacter chroococcum* (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 *Helicoverpa armigera* Nuclear Polyhedrosis Virus.	Patel Charmi S.	Dr.J. J. Jani	2008	Biopesticide	Working at USA
9.	Molecular characterization, mass production and bioefficacy of native *Bacillus thruringiensis* spp. against *Spodoptera litura*.	Rahul Amin	Dr. R. V. Vyas	2009	Biopesticide	Working with BOB
10.	Isolation, characterization and efficacy testing of *Acetobacter* and *Azospirillum* isolates on maize (*Zea mays L.*).	Jhala Yogeshvari K.	Mrs. H. N. Shelat	2009	Biofertilizer	Assistant Professor at AAU
11.	Plant growth promoting activity of IAA and GA_3 producing *Azospirillum* spp. and *Acetobacter* spp. on Maize (*Zea may* L.).	Gupta Dipmala G.	Mrs. H. N. Shelat	2009	Biofertilizer	SRF at ICAR-DM&A, Boriavi
12.	Detection of *nifH* gene, preliminary characterization by ARDRA and protein profiling of native diazotrophs *Azotobacter*, *Acetobacter* and *Azospirillum*.	Prajapati Ronak R.	Dr. R. V. Vyas	2012	Biofertilizer	RA at AAU
13.	Isolation, Identification and Bioefficacy of Native Entomopathogenic *Bacillus thuringiensis* from Soil.	Patel Ankit S.	Mrs. H. N. Shelat	2013	Biopesticide	SRF at AAU
14.	Isolation of plant growth	Pandya	Mrs. H.	2013	Biofertilizer	Laboratory

	promoting endophytic bacteria from potato (S*olanum tuberosum* L.). and their *in vitro* efficacy with antagonistic competency	Hetal A.	N. Shelat			Technician at AAU
15.	Diversity of native rhizospheric fluorescent *Pseudomonas* 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 (*Arachis hypogaea* L.).	Dhole Archna M.	Mrs. H. N. Shelat	2014	*Rhizobium*- non *Rhizobium* interaction (Biofertilizer)	SRF at ICAR-NRC for grapes
17.	Production of Lactic acid by native *Lactobacillus* 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 (*Capsicum Annuum* L.).	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 role in chilli (*Capsicum annuum* L.)	Panchal Vaibhav V.	Mrs. H. N. Shelat	2016	Biofertilizer	Self employed
20.	Isolation and characterization of rhizospheric bacteria from medicinal plant and their efficacy for plant growth promotion in Kalmegh (*Andrographis paniculta*)	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 Methylotrophs (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	Serving in private sector.
23.	Isolation and characterization of lignocellulose biodegrading bacteria from *beejamrut* and *jeevamrut* 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 *in vitro* 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 (*Zea mays* L.)	Patel Tasvir M.	Dr. H. K. Patel	2021	Pesticide degradation and PGPR	Serving in private sector.
M. Sc. by Students of other Institutions / Universities performed dissertation at department						
1	Production of Poly (3-Hydroxyalkanoates) by *Azotobacter* spp. utilizing agro-waste as substrate and its biodegradability *in vitro*	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 *Cellulomonas cartae*	Trivedi Shruti R.	Dr. Vyas R. V.	2012	Bio Degrader	-
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. *Trichoderma harzianum, Trichoderma viridae, Paecilomyces lilacinus, Verticillium lecani, Aspergillus wentii and Emericella nidulans* for Potash Solubilization	Parida Bharti K.	Dr. Vyas R. V.	2015	Bio Fertilizer	Working at USA
6.	Evaluation of antagonistic potential of actinomyecetes against phytopathogenic fungi	Patel Ishita B.	Dr. Jhala Y. K.	2019	PGPR	Working at AAU
7.	Exploration of native lignocellulolytc actinobacteria and their evaluation as biodegarder 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 efficiency for growth promotion in onion	Mistry Nishi P.	Dr. Patel H. K.	2020	Biodegradation	Serving in private sector
10.	Green synthesis of silver	Shah Jeet	Dr. Y. K.	2021	Microbial synthesis	-

	and iron nanoparticle using microalgae		Jhala		of Nanoparticle	
11.	Antifungl activity of ZSB-ZnO nanoparticles against soil borne phytopathogenic fungi and their effect on maize plant growth promotion *in vitro*	Shukla Khyati B.	Dr. H. K. Patel	2021	Nanoparticle – Microbe interaction	Serving in private sector