

Publications (one decade)

Research Papers: 46

Sr. No.	Publications Details	NAAS Rating
2022		
01	Patel HK, Vyas RV and Shelat HN (2022) Selective enrichment method for isolation of efficient phosphate solubilizing bacteria from soil. <i>Communications in Soil Science and Plant Analysis</i> , 53(12): 1532–1541. DOI: 10.1080/00103624.2022.2055054.	7.33
02	Dhole A, Shelat H. (2022) Non-rhizobial Endophytes associated with nodules of <i>Vigna radiata</i> L. and their combined activity with <i>Rhizobium</i> sp. <i>Current Microbiology</i> . 79(4):103. doi: 10.1007/s00284-022-02792-x.	8.19
2021		
03	Soumya Routray, Suman Kumari, Bornali Borah, Harsha Shelat, Jayvirsinh Pratapsinh Solanki and Veena Khanna (2021) A review on Rhizobia and PGPRs interactions in legumes. <i>The Pharma Innovation Journal</i> . 10(7): 1448-1457.	5.23
04	Panpatte D.G., Shelat H.N., Jhala Y.K. and Vyas R.V. (2021). Fortified bacterial consortium – A novel approach to control root knot nematode in cucumber (<i>Cucumis sativum</i>), <i>Biological Control</i> , 155: 104528	8.75
05	Patel I. B., Jhala Y. K., Patel H. K., Patel M. H., Shelat H. and Vyas R. V. (2021). Evaluation of antagonistic potential of actinomycetes against phytopathogenic fungi. <i>Indian Journal of Pure and Applied Biosciences</i> , 9(2): 138-150.	4.74
2020		
06	Patel A.S., Shelat H.N. and Talati J.G. (2020). Biofortification of maize seeds by potash mobilizing PGPR consortium. <i>International Journal of Chemical Studies</i> , 8(2): 1006-1009	5.31
07	Patel A.S., Shelat H.N. and Vyas R.V. (2020). Isolation and characterization of native potash mobilizing plant growth promoting rhizospheric bacteria. <i>International Journal of Microbiology Research</i> , 12(3):1789-1793	4.77
08	Panpatte D. G., Shelat H. N., Jhala Y. K. and Vyas R. V. (2020). <i>Providencia vermicola</i> AAU PR1- A New Bioinoculant for Agriculture with Multiple Utility. <i>Indian Journal Pure Applied Biosciences</i> , 8(5): 185-194	4.74
2019		
09	Manva F. S., Patel H.K. and Vyas R.V. (2019). Effect of insecticides, fungicides and herbicides on pneumoniaizers bacteria and their consortium. <i>International Journal of Current</i>	5.38

	<i>Microbiology and Applied Science</i> , 8(06): 691-699	
2018		
10	Patel A. S., Shelat H. N. and Patel H. K. (2018). Isolation and Insecticidal Potential of Native <i>Bacillus thuringiensis</i> against <i>Helicoverpa armigera</i> and <i>Spodoptera litura</i> . <i>International Journal of Current Microbiology and Applied Sciences</i> , 7(2): 1330	5.38
11	Ramanuj K. B. and Shelat H.N. (2018). Enhancement of Yield and Quality Parameters of <i>Withania somnifera</i> by Indigenous Endophytic Bacterial Isolates. <i>International Journal of Current Microbiology and Applied Sciences</i> , 7(2): 2569	5.38
12	Ramanuj K. B. and Shelat H. N. (2018). Plant Growth Promoting Potential of Bacterial Endophytes from Medicinal Plants. <i>Advances in Research</i> , 13(6): 1-15	4.80
13	Dhole A.M., Shelat H.N. (2018). Phytomelatonin: A plant hormone for management of stress. <i>Journal of Analytical and Pharmaceutical Research</i> , 7(2): 188–190.	-
2017		
14	Archana Dhole, Harsha Shelat and Deepak Panpatte (2017). <i>Chryseobacterium indologenes</i> : A Novel Root Nodule Endophyte in <i>Vigna radiate</i> . <i>International Journal of Current Microbiology and Applied Sciences</i> , 6(4): 836-844	5.38
15	Pandya H.A. and Shelat H.N. (2017). <i>Pseudomonas aeruginosa</i> KPSE 3 – An Endophytic PGPR for Bio Control of Potato Phytopathogens. <i>International Journal of Current Microbiology and Applied Sciences</i> , 6(5): 2954-2964	5.38
16	Patel A.S., Shelat H.N. and Patel H.K. (2017). Cry gene profile of native entomopathogenic <i>Bacillus thuringiensis</i> from soil. <i>International Journal of Current Microbiology and Applied Sciences</i> , 6(7): 2320-2326	5.38
17	Khatri K. J., Dhole A. M., Patel A. S. and Shelat H. N. (2017). Production of lactic acid by native <i>Lactobacillus</i> sp. From agricultural and dairy wastes. <i>Bulletin of Environment, Pharmacology and Life Sciences</i> , 6 (8): 78-83	4.95
18	Shelat H.N., Vyas R.V., Jhala Y.K., Acharya R.R. and Parmar D.J. (2017). Efficacy of Bio NP liquid 2neumonia2zers in chilli nursery. <i>International Journal of Current Microbiology and Applied Sciences</i> , 6(9): 1292-1297	5.38
2016		
19	Gupta, D. G., Pandya H. A., Mistry S. J., Patel A. R., Shelat, H. N. and Vyas R. V. (2016). Isolation of <i>Azospirillum</i> and compatibility testing with micronutrients, PGPR activity and efficacy on tomato. <i>The Bioscan</i> , (2): 891-896	4.57

20	Prajapati R.R., Vyas R. V., Shelat, H. N. and Patel H. K. (2016). Qualitative validation of native diazotrophs through <i>nifH</i> gene and whole cell protein profiling. <i>Journal of Pure & Applied Microbiology</i> , 10(2): 1655-1661.	6.0
21	Panpatte D. G., Shelat H.N., Jhala Y.K. and Dhole A.M. (2016). Inhibition of multiple fungal phytopathogens by bio control bacteria. <i>National Journal of Life Sciences</i> , 13:29-31	4.04
22	Prajapati R.R., Vyas R. V., Patel H. K., and Shelat (2016). Amplified Ribosomal DNA Restriction Analysis for the Preliminary Characterization of Native Diazotrophs <i>Azotobacter</i> , <i>Acetobacter</i> and <i>Azospirillum</i> . <i>Journal of Pure & Applied Microbiology</i> , 10(3): 2289-2298	6.0
23	Dhole A. M., Shelat H.N., Vyas R. V., Jhala Y. K. and Bhangre M. (2016). Endophytic occupation of legume root nodules by <i>nifH</i> -positive non-rhizobial bacteria, and their efficacy in the groundnut (<i>Arachis hypogaea</i>). <i>Annals of Microbiology</i> , DOI 10.1007/s13213-016-1227-1.	6.99
2015		
24	Panpatte D. G., Shelat H. N., Jhala Y. K., Darji V. B., Noushad Parvez, Leena Pathak and Khatri K. J.. (2015). Isolation and characterization of native <i>Pseudomonas fluorescens</i> for biocontrol of <i>Fusarium</i> wilt in Greengram. <i>Green Farming</i> . 6(1): 127-132	4.79
25	Panpatte D. G., Shelat H. N. and Jhala Y. K. (2015). Compatibility of biocontrol bacteria with phyto-extracts. <i>Journal of Pure and Applied Microbiology</i> . 9(4): 3083-3087	6.07
26	Panpatte D. G., Shelat H. N. and Jhala Y. K. (2015). Compatibility of native biocontrol bacteria with bioagents for eco-friendly agriculture. <i>National Journal of Life Sciences</i> .12(2):115-118	4.04
27	Jhala Y.K., Vyas R.V., Panpatte D.G. and Shelat H.N. (2015). Rapid methods for isolation and screening of methane degrading bacteria. <i>Journal Bioremediation & Biodegradation</i> . 7: 322. Doi:10.4172/2155-6199.1000322	-
28	Saiyad S.A., Jhala Y.K. and Vyas R. V. (2015). Comparative efficacy of five potash and phosphate solubilizing bacteria and their key enzymes useful for enhancing and improvement of soil fertility. <i>International Journal of Scientific and Research Publication</i> , 5(2): 1-6	-
2014		
29	B. K. Dabhi, R. V. Vyas and H. N. Shelat (2014). Use of banana waste for the production of cellulolytic enzymes under solid substrate fermentation using bacterial consortium. <i>International Journal of Pure and Applied Sciences</i> , 3(1): 1-9.	-

30	Bhatt S. B., Vyas R. V., Mistry S. J. and Shelat H.N. (2014). Characterization of native <i>Rhizobium</i> sp. from mungbean (<i>Vigna radiate</i> L.) and its PGPR traits. <i>Research Journal of Agricultural Sciences</i> , 5(4): 695-699	3.51
31	Mistry S.J, Vyas R.V., Bhatt S.B. and Shelat H.N.. (2014). Prevention of <i>Fusarium</i> wilt of chickpea by <i>Rhizobium</i> sp. <i>Journal of Mycology and Plant Pathology</i> , 44 (2): 176-180	4.00
32	Jhala Y. K., Vyas R. V., Shelat H. N., Patel H. K., Patel H. K., Patel K. T. (2014). Isolation and characterization of methane utilizing bacteria from wetland paddy ecosystem. <i>World Journal of Microbiology and Biotechnology</i> , 30:1845–1860	7.26
33	Bhatt S.B., Vyas R. V., Mistry S.J. and Shelat H. N. (2014). Mitigation of draught and salinity stress in agricultural crops by plant growth promoting bacteria and VAM. <i>Research Journal of Agricultural Sciences</i> . 5(4): 609-615	3.51
34	Bhatt S.B., Vyas R.V., Mistry S.J. and Shelat H.N. (2014). Bioproduction of indole acetic acid (IAA) by <i>Rhizobium</i> strains isolated from root nodules of green gram (<i>Vigna 4neumon</i> L). <i>Journal of Pure and Applied Microbiology</i> , 8(4): 3213-3221	6.05
35	Jhala Y. K., Shelat H. N., Vyas R. V. and Panpatte D. G. (2014). Endophytic bacteria as biofertilizers for maize (<i>Zea mays</i> L.). <i>The Bioscan</i> , 9(3): 1191-1196	4.57
36	Panpatte D. G., Shelat H. N., Vyas R. V. and Jhala Y. K. (2014). Plant growth promoting rhizobacteria – a promising tool for eco-friendly agriculture. <i>Journal of Pure and Applied Microbiology</i> , 8(6): 4947-4959	6.05
37	Jhala Y.K., Shelat H.N., Vyas R.V. and Panpatte D.G. (2014). Biodiversity of endorhizospheric plant growth promoting bacteria. <i>Journal of Biodiversity, Bioprospecting and Development</i> , 2(1): http://dx.doi.org/10.4172/2376-0214.1000137	-
38	Shelat H. N., Achrya P. K., Jhala Y. K. and Vyas R. V. (2014). Liquid formulation of <i>Azotobacter chroococcum</i> (ABA-1) for Seed inoculation. <i>Journal of Pure and Applied Microbiology</i> , 8(6): 4809-4812.	6.05
39	Dabhi B. K., Jhala Y. K., Vyas R. V. and Shelat H. N. (2014). Bacterial and fungal biodegraders consortia for effective decomposition of wheat straw to obtain nutritive organic compost. <i>Journal of Pure and Applied Microbiology</i> , 8(6): 4793-4801.	6.05
40	Shukla R. M. And Vyas R. V. (2014). Phosphate solubilizing efficiency of mycopesticides. <i>International Journal of Agriculture, Environment and Biotechnology</i> . 7(4): 705-710.	4.10
41	Panpatte D. G., Shelat H. N., Jhala Y. K., Darji V. B., Parvez N., Kalasare R. S., Sangle P. M., Shitap M. S. and Pandya H. A.	4.79

	(2014). Diversity and isolation of native rhizospheric and non-rhizospheric biocontrol strains of fluorescent <i>Pseudomonas</i> . <i>Green Farming</i> , 5(6):1020-1025.	
2013		
42	Patel H. K., Patel H.K., Jani J. J. and Vyas R.V (2013). Modified method for selective enrichment and isolation of <i>Bacillus thuringiensis</i> from soil. <i>Biocontrol Science and Technology</i> , 23(4): 470-473.	6.71
43	Kushwah P. Vyas R. V. Jhala Y. K. and Patel H. K. (2013). Diversity of plastic degrading microorganisms and their appraisal on biodegradable plastic. <i>Applied Ecology and Environmental Research</i> , 11(3): 441-449	6.59
44	Bhatt S. B., Vyas R. V., Shelat H. N., Mistry S. J. (2013). Isolation and identification of root nodule bacteria of mung bean for 5neumonia5zers production. <i>International Journal of Research in Pure & Applied Microbiology</i> , 3(4): 127-133.	-
45	Noushad P., Khatri K. J., Panpatte D. G., Pathak L, Patel A.S., Dhobi C.B. and Vyas R. V. (2013). Inducible accretion of extra cellular chitinolytic enzyme through media optimization confers enhanced biocontrol trait in <i>Pseudomonas aeruginosa</i> fp 183. <i>Journal of Biological Control</i> , 27 (4): 283-292	3.96
2010		
46	Hinge, V.R., Patel B.A. and Vyas R.V. (2010) Differentiation among four <i>Meloidogyne</i> spesices from Gujarat by RAPD – PCR. <i>Indian Journal of Nematology</i> , 40(2):167-70	3.1

Book Chapters: 23

Sr. No.	Chapters Details	Year
01	Patel H.K., Jhala Y.K., Raghunandan B.L. and Solanki J.P. (2022) Role of mycorrhizae in plant-parasitic nematodes management, In Developments in Applied Microbiology and Biotechnology, Trends of Applied Microbiology for Sustainable Economy Soni R et al. (Eds.), Academic Press, Pp: 225-251. https://doi.org/10.1016/B978-0-323-91595-3.00009-4 .	2022
02	Al-Tawaha A., Günal H., Křeček J., Zamfir R., Patel H.K., Vyas R.V. et al. (2021) Soil Fertility Decline Under Climate Change in Fahad, S. et al. (Eds.). Sustainable Soil and Land Management and Climate Change (1st ed). CRC Press. https://doi.org/10.1201/9781003108894	2021
03	Vyas R. V., Shelat H. N. and Jhala Y. K. (2021). Preserving soil health and environment in Pragmatic ways. <i>In: Dangayach S.B. and Sharma Anil. (Eds.), Pragmatic ways for atma nirbhar bharat.</i> Sahitya Sadhna Trust , Ahmedabad	2021
04	Vyas R. V. (2021). The income and livelihood of small and marginal farmers in Gujarat. <i>In: Shelat K., Mbuya O., Pathak A. and Acharya S. (Eds.), Atmanirbhar-self reliant and climate smart farmers roadmap for agriculture: 022-2030-India.</i> Bhagwati Graphics, Ahmedabad	2021
05	Patel H.K., Vyas R.V., Ramesh A. and Solanki J.P. (2021). <i>In: Sharma, S.K., Singh, U.B., Sahu, P.K., Singh, H.V., Sharma, P.K. (Eds.), Rhizosphere Microbes–Driver for Soil Health Management.</i> Rhizosphere Microbes. Springer nature, Singapore.	2021
06	Jhala Y. K., Panpatte D. G., Adetunji C.O., Vyas R. V. and Shelat H. N. (2020). Management of Biotic and Abiotic Stress Affecting Agricultural Productivity Using Beneficial Microorganisms Isolated from Higher Altitude Agro-ecosystems: A Remedy for Sustainable Agriculture. <i>In: Reeta Goel Ravindra Soni Deep Chandra Suyal (Eds.), Rhizosphere Biology, Microbiological Advancements for Higher Altitude Agro-Ecosystems & Sustainability.</i> Springer Nature, Singapore ISSN 2523-8442: pp113-134	2020
07	Gupta M., Panpatte D. G., Jhala Y.K. and Vyas R. V. (2020). Biogas: An Effective and Common Energy Tool – Part II. <i>In: Srivastava N., Srivastava M., Mishra P. K., Gupta V. K. (Eds.), Clean Energy Production Technologies: Biofuel Production Technologies: Critical Analysis for Sustainability.</i> Springer Nature, Singapore.	2020
08	Panpatte D. G., Jhala Y. K. and Vyas R. V. (2020). Signalling pathway of induced Systemic Resistance. <i>In: Vivek Sharma Richa Salwan Laith Khalil Tawfeeq Al-Ani (Eds.), Molecular Aspects of Plant Beneficial Microbes in Agriculture 1st Edition,</i> Elsevier	2020

	Academic Press	
09	Panpatte D. G. and Jhala Y. K. (2020). Agricultural Waste: A Suitable Source for Biofuel Production. <i>In: Rastegari A.A., Yadav A.N. and Gupta A.(Eds.), Biofuel and Biorefinery Technologies Volume 10: Prospects of Renewable Bioprocessing in Future Energy Systems.</i> Springer Nature, Singapore	2020
10	Vyas R.V., Panpatte D.G., Jhala Y.K. and Shelat H.N. (2020). Role of bacterial antagonists in management of plant diseases. <i>In: Pandey R. N., Chakraborty B.N., Singh D. And Sharma P., Microbial antagonists: Their role in biological control of plant diseases.</i> Today and Tomorrow's Printers and Publishers, New Delhi.	2020
11	Vyas R. V., Patel P. M., Shelat H. N. and Rajput A.S. (2019) Organic Farming and Bio-Inputs in Strategies for doubling the farmers' income (A Gujarat Perspective). Patel N. C., Mbuya O. S. and Vyas R. V. (Eds.). Satish Serial Publishing House, New Delhi, pp: 55-78	2019
12	Shelat H. N., Vyas R. V. and Jhala Y. K. (2017). Bio-fertilizers and PGPR for Evergreen Agriculture. <i>In: Verma D.K and Srivastav P. P. (Eds.), Microorganisms in Sustainable Agriculture, Food, and the Environment,</i> Apple Academic press ISBN: 9781771884808.	2017
13	Shelat H. N., Vyas R. V. and Jhala Y. K. (2017). Mass Production, Quality Control and Scope of Biofertilizers <i>In: In: Verma D.K and Srivastav P. P. (Eds.), Microorganisms in Sustainable Agriculture, Food, and the Environment.</i> Apple Academic press, ISBN: 9781771884808.	2017
14	Vyas R. V. , Panpatte D. G , Jhala Y. K. an Shelat H. N. (2017) Wonders of Microbes in agriculture for productivity and sustainability <i>In: Panpatte D.G., Jhala Y.K., Vyas R.V. and Shelat H. N. (Eds.), Microorganisms for Green Revolution Vol. 1 Microbes for sustainable crop production.</i> Springer Nature- Singapore. ISBN 978-981-10-6240-7.	2017
15	Panpatte D. G., Shukla Y. M., Shelat H. N., Vyas R. V. and Jhala Y. K. (2017). Bacterial volatile compounds : A new Insight for sustainable agriculture. <i>In: Panpatte D.G., Jhala Y.K., Vyas R.V. and Shelat H. N. (Eds.), Microorganisms for Green Revolution Vol. 1 Microbes for sustainable crop production.</i> Springer Nature-Singapore. ISBN 978-981-10-7145-4.	2017
16	Panpatte D. G., Jhala Y. K., Shelat H. N. and Vyas R. V. (2016). Nanoparticles – The next generation technology for sustainable agriculture. <i>In: Singh D.P. et al. (Eds.), Microbial Inoculants in Sustainable Agricultural Productivity,</i> Springer Nature, Singapore, DOI 10.1007/978-81-322-2644-4_18., pp- 289-300.	2016

17	Panpatte D. G., Jhala Y. K., Shelat H. N. and Vyas R. V. (2016) <i>Pseudomonas fluorescence</i> : A promising biocontrol and PGPR for sustainable agriculture. <i>In</i> : Singh D.P. <i>et al.</i> (Eds.), <i>Microbial Inoculants in Sustainable Agricultural Productivity</i> , Springer Nature, Singapore, DOI 10.1007/978-81-322-2644-4_18. Pp-257-270	2016
18	Sabalpara, A. N., Vyas R. V. and Shelat H. N. (2015). Organic farming policy in India. <i>In</i> : Varshneya M. C. and Javalekar A. (Eds.), <i>India's Perspective Policy on Agriculture</i> . Uttan Krushi Sanshodhan Sansthan. Pp. 168-181.	2016
19	Vyas, R.V., Shelat, H. N., Jhala, Y.K., Gupta, D. G. and Patel, H. K. (2014). Endophytic plant growth promoting bacteria and its role as <i>8neumonia8zers</i> cum biopesticide for sustainable agriculture. <i>In</i> : Nehra S. (Eds.), <i>Biofertilizers for Sustainable Agriculture</i> . Aviskar Publications. Pp 99-136.	2014
20	Vyas R. V., Singh B., Shelat H. N. and Shekh A. M. (2014). Promoting Agri-Business by Technology Transfer and Public-Private Partnerships for Second Green Revolution- Anand Agricultural University's approach. <i>In</i> : Maredia K., Mysore S., Kumar R. and Ransom C. (Eds.), <i>Technology transfer and commercialization, experiences of India and USA</i> , Michigan State University Press, USA. Pp: 36-49.	2014
21	Vyas R. V., Jhala Y. K., Shukla R. M., Shelat H. N. and Patel D. J. (2011). PGPR Fungus and thriving bioagent <i>Paecilomyces lilacinus</i> , a functional mediator for management of <i>Meloidogyne</i> spp. In India <i>In</i> : Trivedi P. C. (Eds.), <i>Bioagents in plant disease management</i> . Pointer publishers, pp. 181-196.	2011
22	Vyas R.V. and Patel D. J. (2010). Biological Control of Root-Knot Nematodes in India <i>In</i> : Gupta H.C.L., Siddiqui A.U. and Pariha A. (Eds.), <i>Bio Pest Management (Entomopathogenic Nematodes, Microbes & Bioagents)</i> , Agrotech Publishing Academy, Udaipur-313001, pp 79 – 96	2010
23	Vyas R.V. (2010). Mass production technology for entomopathogenic nematodes (EPNs) – A new tool for management of insect pest of crops. <i>In</i> : Gupta H.C.L., Siddiqui A.U. and Pariha A. (Eds.). <i>Bio Pest Management (Entomopathogenic Nematodes, Microbes & Bioagents)</i> , Agrotech Publishing Academy, Udaipur 313001, pp 215-234.	2010

Books: 5

Sr. No.	Books Details	Year
01	Panpatte D.G., Jhala Y.K., Vyas R.V. and Shelat H.N. (Eds.) (2021). MCQs in Agricultural Microbiology. Scientific Publishers. ISBN: 9789389184556	2021
02	Patel N. C., Mbuya O. S. and Vyas R. V. (Eds.) (2019). Strategies for doubling the farmers' income (A Gujarat Perspective). Satish Serial Publishing House, Delhi. ISBN: 978-81-94252-56-6.	2019
03	Panpatte D. G., Jhala Y. K., Shelat H. N. and Vyas R. V. (Eds.) (2018). Microorganisms for Green Revolution Vol. 2 Microbes for sustainable crop production. Springer Nature. ISBN 978-981-10-7145-4	2018
04	Panpatte D. G., Jhala Y. K., Vyas R. V. and Shelat H. N. (Eds.) (2017). Microorganisms for Green Revolution Vol. 1 Microbes for sustainable crop production. Springer Nature – Singapore. ISBN 978-981-10-6240-7.	2017
05	Dhole A.M. and Shelat H. N. (Eds.) (2017). Isolation and characterization of non-rhizobial endophytic bacteria. Lambert Academic Publishing.	2017
06	Vora M.S., Shelat H.N. and Vyas R.V. (Eds.). Handbook of Biofertilizers and Microbial pesticides. Satish Serial Publication.	2006

Success Story/Accomplishment: 2

Sr. No.	Books Details	Year
01	Vyas R.V., Shelat H.N., and Jhala Y.K. (Eds.) (2021). Success Story: Anubhav Liquid Biofertilizers and their consortium (PGPB) Key inputs for organic farming. Publication series EDU-1: 49: 2021:1000.	2021
02	Vyas, R.V., Shelat, H.N., Jhala, Y.K., Patel H.K. and Pandya, H.A. (2016). ' <i>Accomplishments on Agriculturally Beneficial Microorganisms for Sustainable Agriculture</i> '.	2016



Microorganisms for Sustainability 6
Series Editor: Naveen Kumar Arora

Deepak G. Panpatte
Yogeshvari K. Jhala
Rajababu V. Vyas
Harsha N. Shelat *Editors*

**Microorganisms
for Green
Revolution**

Volume 1: Microbes for Sustainable
Crop Production

Springer

Microorganisms for Sustainability 7
Series Editor: Naveen Kumar Arora

Deepak G. Panpatte
Yogeshvari K. Jhala
Harsha N. Shelat
Rajababu V. Vyas *Editors*

**Microorganisms
for Green
Revolution**

Volume 2: Microbes for Sustainable
Agro-ecosystem

Springer

**STRATEGIES FOR
DOUBLING THE
FARMERS' INCOME
(A GUJARAT PERSPECTIVE)**

N.C.PATEL O.S.MBUYA R.V.VYAS

MCQ's in
**Agricultural
Microbiology**

Dr. Deepak G. Panpatte
Dr. Yogeshvari K. Jhala
Dr. Rajababu V. Vyas
Harsha N. Shelat

SCIENTIFIC PUBLISHERS

AAU

**ACCOMPLISHMENTS
on
Agriculturally Beneficial Micro-organisms
For Sustainable Agriculture**

Department of Agril Microbiology & Biofertilizer Projects
B. A. College of Agriculture
Anand Agricultural University
Anand - 388 110, Gujarat, India

(0) +91-2692-260211, 225813 Fax: 02692-260211
Email: rrvyas@aaau.in
Web link: <http://aaui.in/college-menu/department/705-815>

AAU **Anand Agricultural University**
B.A. College of Agriculture Platinum Jubilee Celebration
(1947-2021)

**Anubhav Liquid Biofertilizers and their
Consortium (PGPB) Key Inputs for Organic Farming**

SUCCESS STORY

Nitrogen Fixer
(Consortium: *Leguminosae/Rhizobium*)

Bio NP and Bio NPK
Consortium

P and K
Solubilizer/Mobilizer

Department of Agricultural Microbiology & Biofertilizer Projects
B. A. College of Agriculture, Anand Agricultural University,
Anand - 388 110, Gujarat, India. (0) +91-2692-260211.
Email: hodagmic@aaui.in, rrvyas@aaui.in
Web link: <http://aaui.in/college-menu/department/705-815>