

Dr. D.Y. Patil Vidyapeeth's Dr. D. Y. Patil Biotechnology And Bioinformatics Institute, Pune.

Dr. Mrs. Vrushali G. Gadekar

Designation: Assistant Professor

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Qualification: M.Sc., Ph.D. (Environmental Sciences)

Area of Specialization: Environmental Biotechnology, Advances in Waste water treatment, Environmental Engineering etc.

Academic Qualifications

Ph.D. (2004): Department of Environmental Sciences., University of Pune, Pune, Maharashtra, India

M.Sc. Environmental Sci.1997. University of Pune, Pune.

B.Sc. Zoology (1990). University of Pune, Pune

Professional Experience (17 YEARS):

1. **Assistant Professor (April 2008 onwards):** Dr. D.Y. Patil Biotechnology & Bioinformatics, Tathawade, Pune.
2. **Project Associate (April. 2007-2008),** Department of Microbiology, University of Pune, Pune.
3. **Teaching Associate (Environmental Sciences)** (March 1998-2005), Department of Environmental Sciences., University of Pune, Pune, Maharashtra, India
4. **Visiting Faculty:** (Oct. 2001-Mar. 03), Modern College, Chatusrunji, Pune.
5. **Visiting Faculty:** (July 1999-Oct. 2008), *In* Annasaheb Magar College, Pune Shikshan Mahamandal Sanstha, Hadapsar, Pune.
6. **Visiting Faculty** (July 2000-June 2002), *In* Abeda Inamdar College, Camp, Pune

Reviewer For International Journals:

Energy and Environment

Poland Journal of Environmental Sciences

Research student Guided: 21

Trainings

1. **1996** – Training course on ‘Waste management’ at AQUAFARM Pvt. Ltd. Bhosary, Pune, India, June-1996-July 1996
2. **1997** – Training course on “Sugar Factory ETP Plant” at Kopergaon, Ahmadnagar, India, 1996 Dec 1 to Jan. 8, 1997
3. **2002**- Anna University and Spinco- Biotech, “Bioprocess Engineering”, Chennai India.
4. **2015**-Training Program on E-Waste Management' 2015, at Hotel Kalasagar, Pune., organised by International Institute of Waste Management and Scientific and Industrial Organization on 30-31st Oct. 2015.

Awards

1. Best poster presentation award, for Recycling of whey for propagation and screening of antibiotic bioinoculant. In *International conferences on Microbiology Technology. Trade and Public Policy*, Usmania University Hyderabad, 15-17th July 2000.
2. Best poster presentation award, Anna University for Propagation of acidophilic actinomycetes in wastewater, a low cost technology. In *Biotechnology at the turn of millennium*. 2-4th Feb. 2002, Chennai, India.

Memberships

1. Member of Association of Environmental Management, IIT, Powai, Mumbai India (Lifetime)
2. Women Scientist Association, Pune, India (Lifetime)
3. International Water Association (2013-2016)
4. The Biotech Research Society (BRSI), India (Lifetime)

Invited Speaker :

- 1“Designing of Water Treatment Plant” New Arts, Science and commerce College, Ahmednagar, Maharashtra, India, 2008.
- 2“Advances in waste water treatment” Pimpary chinchwad polytech. college, Akurdi, Pune, Maharashtra, India, 2009.

Research Grant:

Project Title: Phytocopying Technique to reduce methane emissions from Municipal Landfill sites

Project Type: Major (Sanctioned amount: 17 Lakhs)

Sanctioned & Funded by: Dr. D.Y.Patil University, Pune

Technical Abstracts/ Oral/Poster Presentations at International Seminars : 22

1. Gama D, V.G. Gadekar, S. Sawant, M.B Khetmalas . Development of phytocapping site and further their effects on plant growth. *In International conference of 'Advances in Biotechnology & Bioinformatics*, 22-25 Nov.2015, BRSI, Trivendrum.
2. Gadekar V., Jadhav S. and B. Kapadnis Microbial bioconversion of whey for Indole-3-acetic acid producing bioinocula. *In International conference on Advances in Biotechnology & Bioinformatics*, 25-27th Nov. 2013. P, C 186, Le, Meridian, Pune.
3. Gawas, P. Bhaskare P. & Kapadnis B., Khetmalas M. and V. Gadekar In vitro production of Indole-3-acetic acid in actinomycetes isolates from root rhizosphere of persicaria glabra and their evaluation on growth of *Vigna aconitifolia*. *In International conference on Advances in Biotechnology & Bioinformatics*, 25-27th Nov. 2013. P. C 167, Le, Meridian, Pune
4. Madkaikar C., Kapadnis B., Nawani N., Khetmalas M., and V. Gadekar. Use of pulp and paper mill effluent for growth of Actinomycetes sps. Isolated from root rhizosphere soil *In International conference on Advances in Biotechnology & Bioinformatics*,25-27th Nov. 2013. P.C 204 Le, Meridian, Pune
5. V. Gadekar, P. Mukarajee, N. Nawani B. Kapadnis. Development of low cost technology for phosphate mobilizing acidophilic actinomycetes bioinocula. *In International conference on Advances in Biotechnology & Bioinformatics*,25-27th Nov. 2013. P. . C 172, Le, Meridian, Pune.
6. Roopshikha, Adhikari T. and V. Gadekar. Isolation and screening of antibiotic producing actinomycetes from polluted sites-indian journal of biotechnology *In International conference on Advances in Biotechnology & Bioinformatics*,25-27th Nov. 2013. P. C. 162, Le, Meridian, Pune.
7. Mukherjee S. R., Sanghani J.A., Vyas B.J., Bhoir S.P. , Pathak S.S. and V. G. Gadekar Study of Antibiotic producing *Streptomyces vinaceous* growth in WM & SCM, A recycling approach. *In Frontiers in Biotechnology.*, Feb. Pune,2011 D. Y. Patil University , Tathawade,, Pune.
8. Gadekar V. G., Malode H.V. and B. P. Kapadnis Evaluation of carrier- based bioinocula of Actinomycetes using *Gladiolus hortunalus* *In Frontiers in Biotechnology.*, Feb. Pune,2011 D. Y. Patil University , Tathawade,, Pune.
9. Gadekar V. G., Pathak S.S., Deshmukh A.A., Pawar S.V., Salagare A.D., Nawani N.N., Tandon G. D. and B. P. Kapadnis Effect of Agricultural and Bioindustrial Waste on survival of plant growth promoting Acidophilic Actinomycetes. Nov. 2010. *National Conference on Emerging Trends in Biopharmaceuticals: Relevance to Human Health (NCETB)* , Nov. 2010 Patiala, Punjab, India.

10. Ghorpade, D., Nawani, N. N., V.G. Gadekar and Kapadnis, B. P. (2008) Determination of gross composition and characterization of shrimp biowaste in comparison with different types of processed chitins. Indo-Italian Conference on Green and Clean Environment, Pune, India. March 2008.
11. Gadekar, V. G., Nawani, N. N. and Kapadnis, B. P. (2008) Recycling of whey for development of plant growth promoting bioinocula. Indo-Italian Conference on Green and Clean Environment, Pune, India. March 2008.
12. Nawani, N. N., Divya Prakash, Gadekar V.G. and Kapadnis, B. P. (2007) Enhancement of chitinase production from *Microbispora* sp. V2 by response surface methodology. 48th conference of AMI, Chennai, India. Dec 2007.
13. Kanavade V. L. and Kapadnis B. P. Interruptions in biomethanations. 3-7th Jan. 2000. In Indian Science Congress. University of Pune, Pune, India.
14. Kanavade V. L. and Kapadnis B. P. Recycling of whey for propagation and screening of antibiotic bioinoculant. In *International conferences on Microbiology Technology. Trade and Public Policy*, 15-17th July 2000, Pg. 154. Hyderabad, India.
15. Kanavade V. L. and Kapadnis B. P. Dynamics of hydrogen ion concentration, biomethanation, and microbial sulphate reduction in anaerobic bioreactor of spent wash. In *International conferences on Microbiology Technology*. 15-17th July 2000, Pg. 99. Trade and Public Policy, Hyderabad, India.
16. Kanavade V. L. and Kapadnis B. P. Propagation of acidophilic actinomycetes in wastewater, a low cost technology. In *Biotechnology at the turn of millennium*. 2-4th Feb. 2002, Chennai, India. Best Presentation Award.
17. Kanavade V. L. and Kapadnis B. P. Interruptions due to Ca(OH)₂ and Failure of biogas digesters. In *Biotechnology at the turn of millennium*. 2-4th Feb. 2002, Pg. 122, Chennai, India.
18. Kanavade V. L. and B. P. Kapadnis. Shelf life and field trials of groundnut, wheatbran based bioinocula of plant growth promoting bacteria. 6th International PGPR workshop, 5-10th October 2003, Pg. 352, Calicut, Kerala, India.
19. Kanavade V. L., N.N. Nawani and B. P. Kapadnis. Effect of phosphate mobilizing *streptomyces* sp. KKC on growth of wheat (*Triticum astivum* L.) plant. Microbiology, the challenges ahead, In 47th annual conference, AMI, Dec. 6-8th Dec, 2006, Pg. 158. Bhopal, India.
20. Saraf A., N.N. Nawani, Kanavade V. L., N.N. Patil and B. P. Kapadnis (2006). Insecticidal activity of a conglomerate preparation of chitinase and protease, on *Helicoverpa armigera*. In 47th annual conference, AMI, Dec. 6-8th Dec. 2006, Pg. 187, Bhopal, India.
21. N.N. Nawani, Divya Prakash, Gadekar V. G. and B. P. Kapadnis. Enhancement of chitinase production from *Microbispora* sp. V2 by response surface methodology. Microbs: Biofactories of the future, Pg. 22. In 48th annual conference, AMI, Dec. 18-21st Dec. 2007, Chennai, India.
22. Gadekar V.G., Nawani N.N. and B. P. Kapadnis. Design matrix for demineralization of crab shell waste for chitin production. In 47th annual conference, AMI, Dec. 6-8th Dec. 2007, Pg. 16 Chennai, India.

International: 4

National : 5

International: 4

1. Gadekar V.G., M. B.Khetmalas and B.P.Kapadnis 2016. Microbial bioconversion of whey for Indole-3-acetic acid producing bioinocula. In *Asian Journal of Microbiology , Biotechnology and Environmental Sciences (Accepted)*
2. Singh S., Gadekar V and F. Khan 2015. Preliminary characterization of celluloses from actinomycetes *streptomyces cinnabarinus* an *streptomyces globosus* isolated from wastewater effluents of pulp industries. *International Journal of Innovative Biological Research*, Vol. 4., pp. 4-8.
3. Lal P., Arya S., Kumar A., Gadekar V. and Kumar A. 2014, Recent advances and future prospects in diagnosis of h1n1 flu virus. *International Journal For Technological Research in Engineering*, PP. 482-486.
4. Gunjal A. B., V. G. Gadekar, N. N. Nawani and B. P. Kapadnis. Agro-industry byproducts value addition: a review. In *Advances in Biotechnology*, Chapter 4 Nov-14 IK International Publishing House Pvt. Ltd., India Eds Neelu Nawani, M. B. Khetmalas, P.N. Razdan, Ashok Pandey, 2014. Page 76-90

National Publications: 5

5. Kanavade. V.L. and B.P. Kapadnis 2000. Interruptions in biomethanation during anaerobic treatment of industrial effluents, a review. In *Environmental Pollution and Management of wastewater by Microbiological techniques*. (Els. G.R.Pathade and P.K.Goyal) ABD Publishers, Jaipur pp 500-517.
6. Kanavade V. L., N. J. Pawar and B. P. Kapadnis. 2003. Microbial bioconversion of whey novel approach to bioremediation of bioindustry waste, a review. In *Advances in Environmental Biotechnology* Ed. Pathade,G. R. & Goal P. ABD Publisher. PP. 293-315, Jaipur, India.
7. Kanavade V. L. and Kapadnis B. P. 2002. In *Proceedings of seminar on Opportunities in utilization of by-products from agriculture and food processing sectors* ed. Venugopalan A. and Jadhav S. J. pp. 44-47. ISEST and MPKVS, Pune, India.
8. Kanavade V. L. and B. P. Kapadnis. 2002. Use of whey for isolation and propagation of *acidophilic actinomycetes* with phosphate mobilization ability. *Journal of Agricultural Universities*. 27, 168-172.
9. Kanavade V.L. and Kapadnis. 2002. Yield improvement of Groundnut with actinomycetes and pseudomonads mixed bioinocula through bioconversion of whey. In

National symposium on Environmental Biotechnology and Biodiversity conservation 31
Jan- 1st Feb. 2003, Anand, India.