
Mrs. Arti Abhijit Kale



Designation: **Assistant Professor,**

Dr. D.Y. Patil Biotechnology & Bioinformatics Institute,
Dr. D.Y. Patil Vidyapeeth, Pune

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EDUCATIONAL QUALIFICATIONS:

SET qualified (2006)

M.Sc. in Microbiology (2000) – Abbasaheb Garware College, Pune University - **First class**

B.Sc. in Microbiology (1998) – Pune University- **First class.**

Bachelors in Education (B. Ed) in (2004) – Pune University- **First class with Distinction.**

EMPLOYMENT EXPERIENCE:

Lecturer, Dr. D. Y. Patil Arts, Commerce & Science College, Pimpri, Pune. , Dr. D.Y.
Patil Vidyapeeth, Pune -411033 (2000 -2006)

Assistant Professor, Dr. D.Y. Patil Biotechnology & Bioinformatics Institute, Dr. D.Y.
Patil Vidyapeeth, Tathawade, Pune -411033 (2006 -)

FIELD OF SPECIALIZATION: Microbiology

Specific Areas of Research Interest:

- 1. Exploring *Actinomycetes* Diversity and its potential application at industrial level.**
- 2. Exploring Myxobacterial Diversity-**Myxobacterial species were isolated from different soil samples from gardens and fields around Pune. The pure Myxobacterial cultures can be subjected to an arsenal of molecular manipulations which will make it possible to examine Myxobacterial social behavior and complex development at cellular and molecular level.
- 3. Biodegradation of Triphenylmethane dyes-** Performed training project at Agharkar Research Institute, Pune. The effluent from paper pulp industry and textile industry was collected to carry out a study on degradation pattern of dyes using microorganisms.

ACADEMIC ACTIVITIES:

Teaching & Research Experience:

- 1. Lecturer** in Microbiology, Department of Microbiology, Dr. D. Y. Patil Arts, Commerce & Science College Pimpri Pune. (~ 3yrs.)
- 2. Assistant Professor** in Microbiology, Dr. D. Y. Biotechnology & Bioinformatics Institute, Tathawade Pune. (~ 15 yrs.)
3. Participated in various academic related activities.

Publication.

- 1. Deshmukh, A. A.,** Nawani, N. N., Khetmalas, M. B. and P. N. Razdan (2012) Soil Micronutrients: Role in plant growth and Integrated Nutrient Management systems. In: Soil Microbes and Ecosystem Health, Ed. Miransari M., Chapter 4, Nova publishers, USA. Pp 73-91.

Technical Abstracts presented in conferences.

1. Relevance to Human Health (NCETB), Patiala, Punjab, India, Nov. Kanishk Abhinav, P Sharma, A Salagare, S Pathak, **Arti. A. Deshmukh**, V. G. Gadekar, N. N. Nawani and G. D. Tandon (2010) Ethanol production from agricultural commodity wastes. Research Meet, Mithibai College, Mumbai, India. 11th Dec 2010.
2. Shilpa Pathak, A Bansal, S Bhoir, K Bharadwaj, **Arti Deshmukh**, A Salagare, V.G. Gadekar, Nawani N. N. and G. D. Tandon (2010) Synthesis of biodegradable film from bacterial exopolysaccharide. National Conference on Emerging Trends in Biopharmaceuticals: Relevance to Human Health and 4th annual convention of Association of Biotechnology and Pharmacy, Thapar University, Patiala, Punjab, India. 11th-13th Nov 2010.
3. Gadekar V. G., S Pathak, Sanghani JA, Mukherjee SR, **Arti Deshmukh**, Pawar S. V, A Salagare, Nawani N. N., G. D. Tandon and B. P. Kapadnis (2010) Effect of agricultural and bioindustrial waste on survival of plant growth promoting acidophilic actinomycetes. National Conference on Emerging Trends in Biopharmaceuticals: Relevance to Human Health and 4th annual convention of Association of Biotechnology and Pharmacy, Thapar University, Patiala, Punjab, India. 11th-13th Nov 2010
4. Kanishk Abjinav, G. Joshi, R. Patel, **A. Deshmukh**, A. Bhushan, S. Singh, A. Maurya, A. Salagare, S. Pathak, S. Pawar, N. N. Nawani, G. D. Tandon (2010) Non-edible Lignocellulosic Refuse as Feedstock for Microbial Production of Bioethanol. Climate Change conference, **Brisbane, Australia**. 8th-10th July 2010
5. Ankit Saxena, Megha Iyer, N Vishal, S. V. Pawar, S. S. Pathak, A. D. Salagare, **A. Deshmukh**, N. N. Nawani and G. D. Tandon (2009) Biofuel production from lignocellulosic residues by segregated saccharification and fermentation. Proceedings of Climate Change and Challenges in Biodiversity Conservation, Pune, India. 3-4th Dec 2009 (2nd prize).
6. P. Pradhan, S. V. Pawar, S. S. Pathak, A. D. Salagare, **A. Deshmukh**, N. N. Nawani and G. D. Tandon (2009) Utility of lignocellulosic and marine waste for enhancing growth of flowering plants. Proceedings of Climate Change and Challenges in Biodiversity Conservation, Pune, India. 11-12th Dec 2009.
7. Gadekar V. G, Pathak SS, Mukherjee SR, Sanghani JA, **Deshmukh A A**, Salagare AD, Nawani NN, Tandon GD, and BP Kapadnis (2010) Effect of agricultural and bioindustrial waste on survival of acidophilic actinomycetes. UGC sponsored National conference on Emerging Trends of Biopharmaceuticals, Thapar University, Patiala, Panjab, India. Nov. 2010
8. Pathak S., A. Bansal., S. Bhoir, K. Bhardhwaj, **A. Deshmukh**, A. Salagare, V. Gadekar, N. Nawani & G. Tandon. Synthesis of Biodegradable film from bacterial exopolysaccharide Nov. 2010. National Conference on Emerging Trends in Biopharmaceuticals: 2010
9. Vidya Naik, **Arti A Kale**, Manjusha Dake. Studies on isolation of Actinomycetes sp. from marine water samples from Mumbai and Goa region. Poster presented in Interdisciplinary Advances in Applied Biotechnology. (IAAB) 2019

10. Vikas Shinde, **Arti A Kale**, Neelu Nawani. Assessment Of Probiotic Properties Of *Bacillus* Isolated From Vegetable Source. Poster presented in National Symposium – Recent Advances In Modern Biology & Biotechnology (RAMBB) 2019
11. Chikanshi Sharma, Arti A Kale, Neelu Nawani. Exploring The Bioactive Potential of Actinomycetes Isolate from Pangong Lake Sample. Poster presented in Interdisciplinary Advances in Applied Biotechnology. (IAAB) 2019
12. Naik V., **Kale A.**, Dake M. S. Isolation and identification of *Actinomyces* sp. from marine water samples of Goa region. Poster presented in International Conference on "Biotechnology: Perspectives and Challenges. 2020 Modern college of Arts, Science & Commerce, Ganeshkhind , Pune

