

**Name** : ARTI A. DESHMUKH  
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**Academic Qualifications** : SET, MSc (Microbiology), B.Ed.

**Teaching Experience** : 10 years

1. Dr. D.Y. Patil Biotechnology and Bioinformatics Institute Tathawade. (2006 till date).

**Lecturer in Industrial biotechnology and Microbiology.**

Subjects taught to BBT, MIT, BBI and M.Sc Students.

- Microbiology.
- Virology.
- Cell Biology.
- Mammalian Physiology-I
- Mammalian Physiology-II
- Practical of Biology.
- Practical in biotechnology.
- Practical in cell biology.
- Practical in biopharmaceuticals.
- Practical in Microbiology.

Participated in “Faculty Development Programme”, various events of extra and co- curricular activities.  
Guided students for project.

2. Pad. Dr. D. Y. Patil Collage of Arts, Commerce and Science, Pimpri.( July 2004 To Nov 2006)

**Lecturer in Microbiology**

Subjects taught to Second Year and Third Year B.Sc. students

- Food and Dairy Microbiology.
- Genetics and Applied Microbiology.
- Environmental Studies.
- Practical in Applied Microbiology (Third Year)
- Practical in Microbiology (Second Year)

I have been appointed as Internal Examiner for First Year University Practical examination (2005). Was also appointed as an External Examiner for Second Year University Practical Examination (2005) at Mahatma Phule College, Pimpri. Periodically assessed performance of the

students through seminars, group discussions, viva and written exams. Have conducted study tours to National AIDS Research Institute (NARI), Aarey Dairy, Sewage Treatment and Water Treatment Plant as part of curricular activities for the students. Has actively participated in Science Association Activities of the college.

3. Pad. Dr. D. Y. Patil Collage of Arts, Commerce and Science, Pimpri.( Aug 2000 to May 2001)

**Lecturer in Microbiology.**

Subjects taught

- Applied Microbiology.
- Introduction to Microbiology.
- Practical in Introduction to Microbiology.

### **Research Interest : Microbiology**

- Successfully completed M.Sc. project on “**Exploring Myxobacterial Diversity: Attempts to amplify ribosomal DNA.**”

Myxobacterial species were isolated from different soil samples from gardens and fields around Pune. The pure Myxobacterial cultures can be subjected to a arsenal of molecular manipulations which will make it possible to examine Myxobacterial social behavior and complex development at cellular and molecular level. The use of molecular taxonomy approach may help in replacing fruiting body as the ultimate taxonomic criteria. Its ribosomal DNA sequence will help to find out phylogenetic relationship between Myxobacterial species and group of bacteria.

- Have attended summer training project at Agharkar Research institute, Pune. The topic of the training programme was “**Biodegradation of Triphenylmethane dyes**” The effluent from paper pulp industry and textile industry was collected to carry out a study on degradation pattern of brilliant green dye and Basic fuschin dye by *Pseudomonas sp.* This has further implication in effluent treatment in the above mentioned industries.

### **Publications (Book Chapter)**

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, Pooja Sharma, Amol Salagare, Shilpa Pathak, **A. 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, Akansha Bansal, Siddhant Bhoir, Kirti Bharadwaj, **Arti Deshmukh**, Amol 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-13<sup>th</sup> Nov 2010.

3. Gadekar V. G., Shilpa Pathak, Sanghani JA, Mukherjee SR, **Arti Deshmukh**, Pawar S. V., Amol 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-10<sup>th</sup> July 2010.

5. Ankit Saxena, Megha Iyer, Nidhi 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.