

Teacher Profile



- 1) Name of teacher: Dr. Jayashree Mahesh Pawar
- 2) Gender: Female
- 3) Department: Biotechnology and Microbiology
- 4) Highest qualification: Ph.D
- 5) Date of passing of highest qualification: 18th October 2016
- 6) Name of University for above qualification: University of Mumbai
- 7) Nature of post (Permanent/ temporary/ part time): Permanent
- 8) Designation: Assistant Prof.
- 9) Date of appointment: 1st August 2009
- 10) Teaching experience in years: 15 years
- 11) Participation in various bodies of (universities/ autonomous colleges/ other colleges, such as BoS & academic council)- Chairperson, TYBSc Biotechnology (Practical)
- 12) Awards, recognition fellowship at state, national, international level from government recognized bodies with date:
 - Has Submitted **33 microbial 16S rDNA sequences of probable novel bacteria in the international ENA (European Nucleotide Archive) database**
 - Guided a research project “ Biodegradation of LDPE plastic” presented by students at “unge forskere”, 28th young scientist fair and contest held at Copenhagen, Denmark during 22nd – 26th April 2016 and won **Bronze medal in International Category**
 - The research project on Microbial Fuel Cell got selected at zonal level at **TERI- 'New Zealand-India Sustainability Challenge'** out of 250 applicants in September 2017.
 - Guided a research project “Hidden Treasure from Vermiwash as an Agricultural Boon” presented by students at “unge forskere”, 29th International young scientist fest and contest held at Copenhagen, Denmark on 22nd to 26th April 2017 and won **Gold medal in International Category**

- **Guided a winning research project** “novel and eco-friendly staining method for proteins separated by polyacrylamide gel electrophoresis” presented by students at State Level ‘**Vidhyan Sanshodhan Puraskar Spardha**’ organized by Marathi Vidnyan Parishad, January 2019.
- **Co-guided a winning research project** “Culturomics based approach for isolation of novel PGPRs” presented by students at State Level ‘**Vidhyan Sanshodhan Puraskar Spardha**’ organized by Marathi Vidnyan Parishad in January 2019.

13) Government/Non- government Grants for research projects- Nil

14) Recognized as research guide- Nil

15) List of research papers in journal notified on UGC website-

- Pawar, J., Kamat, S, Kamat, D. (2015). Isolation of novel paranitrophenol degrading bacteria from ozonated effluent. *Bionano Frontier*, 8 (2).
- Mulye, K., Pawar, J., Chhatre, A., Bagul, A. (2015). Efficacy analysis of vermicomposting for microbiological waste treatment. *Bionano Frontier*, 8 (2).

16) Books and chapters in edited volumes/books- Nil

17) **Papers in national/ international conference proceedings:**

- Kalpita Mulye, Jayashree Pawar, Zahera Momin, Praniti Ghatmale, Subhash Khatri, Yash Deshpande (2017). Evaluation of Synergistic Effect Of Vermiwash And *Azotobacter spp.* on Growth of *Triticum aestivum*. Proceedings of International Conference on ‘Emerging Technologies for Sustainable Agriculture’. ISBN: 978-81-92368-4-7: 36-42
- Kalpita Mulye, Jayashree Pawar, Yash Deshpande, Subhash Khatri, Praniti Ghatmale (2017). Evaluation of Synergistic Effect of PGPRs in Consortium on Growth of *Vigna radiata*. Proceedings of International Conference on ‘Emerging Technologies for Sustainable Agriculture’ ISBN: 978-81-92368-4-7: 55-62
- Jayashree Pawar, Kalpita Mulye, Purvi Shah (2017). Isolation of Endophytic and Rhizospheric PGPR Using Nutrient Limiting Plant Based Culture Media. Proceedings of International Conference on ‘Emerging Technologies for Sustainable Agriculture’ ISBN: 978-81-92368-4-7: 75-79
- Kalpita Mulye, Jayashree Pawar, Zahera Momin, Yash Deshpande , Praniti Ghatmale, Subhash Khatri (2017). Comparative Analysis of Vermiwash and *Azotobacter spp.* on Growth of *Vigna radiata* Proceedings of International Conference on ‘Emerging Technologies for Sustainable Agriculture’ ISBN: 978-81-92368-4-7: 118-125

- Pawar, J., Kamat, D., Kamat, S. (2015) A comparative study of ozonated and non ozonated effluents to screen novel paranitrophenol degraders. Life Sciences international research journal, 2 (special issue): 83-88.

Oral presentations:

- Isolation of Novel Paranitrophenol Degrading Bacteria From Ozonated Effluent: Jayashree Pawar, Sheela Kamat and Dileep Kamat at the Sajjan Gupta Konark memorial awards organized by K. C. College Churchgate, in January 2015.

- A Comparative Study Of Ozonated And Non Ozonated Effluents To Screen Novel Paranitrophenol Degraders: Jayashree Pawar, Dileep Kamat, Sheela Kamat at national conference on recent trends and innovations in microbial world at Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar on 15th – 16th January 2015.

Poster presentations:

- Culture and molecular based analysis of paranitrophenol degrading bacteria in sludge: Pawar J.M. *, Kamat S.D., and Kamat D.V.: Poster presentation at the 54th annual conference on Association of microbiologists of India (AMI-2013), an international conference at Rohtak, Haryana, during 17th-20th November 2013.
- Use of Azotobacter, Phosphate solubilizing bacteria and vermiwash as biofertilizer: Anita Rai, Raghavi Murai*, Prathamesh Chougule, Jayashree Pawar, Kalpita Mulye: Poster presentation at the Sajjan Gupta Konark memorial awards, a one day research meet at S. I. E. S. College, Mumbai on 23rd December 2013.
- Isolation and characterization of microorganisms from sludge using molecular techniques: Pawar J. *, Kamat S. D., and Kamat D. V.: Poster presentation at the Sajjan Gupta Konark memorial awards, a one day research meet at G. N. Khalsa College, Mumbai in December 2012.
- ‘Earthworm Gut’ As ‘Customized Enrichment System’ For Isolation Of Agarose Digesters: Pawar Jayashree*; Mulye Kalpita; Talker Judith; Talker Elizabeth; Nikam Ankita: Poster presentation at International Conference On Microbiome Research, Pune in November 2018.

Trainings and consultancies offered:

- Actively involved in guiding the students regarding preparation for competitive exams (JNU, JAM, TIFR etc.)
- Actively involved in providing training and consultancy regarding antimicrobial sensitivity testing, basic techniques in microbiology, microbiology laboratory set-up, water potability testing etc.

Conference and Workshops Organized:

- Has worked as organizing secretary, in organizing International Conference on 'Emerging Technologies for sustainable Agriculture' at B. N. Bandodkar College of Science, Thane, Thane, in January 2017.
- Worked as co-coordinator in organization of Avishkar- a research convention by University of Mumbai, for Thane district level, organized at B. N. Bandodkar College of Science, Thane, in November 2014