

Name : Dr. Sarika Vishnu Pawar
Designation : Assistant Professor
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Research Interest : Health Biotechnology



Academic Qualification:

- 1) **Post-Doctorate** (Biology) (2015) Department of Science, Roma Tre University, Rome, Italy
- 2) **Ph.D.** (Biology) (2014) Department of Science, Roma Tre University, Rome, Italy

Thesis Title: “The cyclic-di-GMP signalling system of *Pseudomonas aeruginosa*: a target for biofilm inhibition”.

- 3) **SET** Lecturer-ship (Life Science) (2003) Maharashtra and Goa, India

- 4) **M.Sc.** (Microbiology) (2003) Department of Microbiology, Savitribai Phule Pune University, Pune, India
- 5) **B.Sc.** (Microbiology) (2000) Department of Microbiology, KTHM college, Nashik, Savitribai Phule Pune University, Pune, India

Teaching Experience:

- 1) **Assistant Professor** (Oct 2016 – Present): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune.
- 2) **Lecturer** (Sept 2006 – Sept 2010): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune. (Primary role: Research and Teaching).
- 3) **Lecturer** (July 2004 – August 2006): Department of Microbiology, Pad. Dr. D. Y. Patil, Arts, Commerce and Science College, Pimpri, Pune.

Awards and Fellowships:

- 1) Postdoctoral Fellowship, **Roma Tre University**, Rome, Italy (2015) Funded by Italian Cystic Fibrosis Research Foundation and Italian Research Ministry.
- 2) Doctoral Fellowship, **Roma Tre University**, Rome, Italy (2014) Funded by Italian Cystic Fibrosis Research Foundation and Italian Research Ministry.

- 3) Junior Research Fellowship, Institute of Bioinformatics and Biotechnology, **Savitribai Phule Pune University**, Pune, India (2011)
- 4) Research Assistant Fellowship, Center for Sensor Study, Department of Electronics, **Savitribai Phule Pune University**, Pune, India (2011)
- 5) Project Fellow, Department of Microbiology, **Savitribai Phule Pune University**, Pune, India (2003)

Research Experience:

- 1) **Researcher** (June 2016 – Sept 2016): Bijasu Agri Research Laboratory, Kondhawa, Pune.
- 2) **Guest research Fellow** (March 2011 – July 2011): Institute of Bioinformatics and Biotechnology, Savitribai Phule Pune University, Pune.
- 3) **Research Fellow** (Oct 2010 – Jan 2011): Department of International Health, Immunology and Microbiology, University of Copenhagen, Denmark.

Training/Workshops/Seminars/Conferences:

- 1) **Sarika Vishnu Pawar**, Marco Messina, Giordano Rampioni, and Livia Leoni (2015). Development of a biosensor for the identification of biofilm inhibitors targeting c-di-GMP signalling via a drug repurposing approach. 31st SIMGBM Congress (Ravenna, Italy, 23-26th September, 2015).

- 2) **Sarika Vishnu Pawar**, Marco Messina, Giordano Rampioni, Volkhard Kaever, and Livia Leoni (2014). Development of a biosensor for the screening of innovative anti-biofilm drugs. ESGB Meeting Biofilm based Healthcare-associated Infections: from Microbiology to Clinics (Rome, Italy, 9-10th October, 2014).
- 3) Marco Messina, **Sarika Vishnu Pawar**, Giordano Rampioni, and Livia Leoni (2013). Development of a biosensor for the high-throughput screening of anti-biofilm drugs. 2nd Applied Synthetic Biology in Europe (Málaga, Spain, 25-27th November, 2013).
- 4) **Sarika Vishnu Pawar**, Marco Messina, Giordano Rampioni, and Livia Leoni (2013). Development of a biosensor for the high-throughput screening of anti-biofilm drugs. 30th SIMGBM Congress (Ischia, Italy, 18-21th September, 2013).
- 5) Attended National Biofilm Symposium at University of Copenhagen, Denmark (Nov 2010).
- 6) 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, 2010).
- 7) 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).

- 8) **Pawar S.**, Misra R., Kanthan N., Gupta S., Pathak S., Nawani N. and G. D. Tandon (2010). Screening of biosurfactant producing bacteria from diesel contaminated soil. State level Conference on “Recent trends in physic-chemical sciences, biotechnology and biodiversity” (Dr. D. Y. Patil ACS college, Pimpri, Pune, India, 12-13th Feb 2010).
- 9) Malhotra A., Nawani N. N., Singh A., **Pawar S.V.**, Prakash D., Terdalkar S. and G. D. Tandon (2010). Studies on prospective bioinoculum for the sustenance of mangroves for prevention of Tsunami. International Congress of Chemistry and Environment (Thailand, 21-23rd Jan 2010).
- 10) Malhotra A. Nawani N. N., Singh A., **S. V. Pawar**, Prakash D., Terdalkar S. and G. D. Tandon (2009). Studies on microbial diversity of mangrove ecosystem of Ratnagiri. Proceedings of Climate Change and Challenges in Biodiversity Conservation (Pune, India, 11-12th Dec 2009).
- 11) **Pawar S.**, Bhujbal S., Chanda C., G. D. Tandon and Kothekar V. (2008). Computational analysis of N-acyl homoserine lactone analogs against *Pseudomonas aeruginosa* transcriptor protein LasR”. International Conference of Drug Discovery and Nanotechnology (Nanded, India, 26-28th Jan 2008).
- 12) Research Trainee at Glaxo Smith Kline Pharmaceuticals Limited Nashik India (One month training period, 2002).

Publications:

- 1) **Sarika Vishnu Pawar**, Marco Messina, Serena Rinaldo, Francesca Cutruzzolà, Volkhard Kaefer, Giordano Rampioni, and Livia Leoni (2016). Novel genetic tools to tackle c-di-GMP-dependent signaling in *Pseudomonas aeruginosa*. *J Appl Microbiol.* 120(1):205-217.
- 2) Narendra Dhele, Shankarrao Patil, **Sarika V Pawar**, N Ganesh (2012). Analysis of Radiotherapy and chemotherapy induced toxicity on rodents (*Swiss albino*) and pharmacological importance of *Pistia stratiotes*. *Inter J Phytomedicine* 4(3):355-361.
- 3) Sahili A. Deshpande, **Sarika Pawar**, Narendra V. Nyayanit, and Surekha K. Satpute (2010). Glycolipid biosurfactant production from *Pseudomonas aeruginosa* scos 46 isolated from oil contaminated sites of Pune city. *J Adv Sci Technol.* 13(3):15-19.