

Ashwini Tilak

PhD, NET

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Experience

2016-PRESENT

Assistant professor/ VPM's B. N. Bandodkar College of Science (Autonomous), Thane

- Member of Board of studies, Biotechnology and Microbiology
- Guide for undergraduate competition Avishkar
- Member of organizing committee of 'National Conference on Microbiome – the story untold!' hosted by Bandodkar College in January 2022
- Resource person for 2nd pre-conference workshop in 'National Conference on Microbiome – the story untold!' on the topic Essential Bioinformatics Part I: BLAST- A tool for sequence alignment
- Resource person for 2nd pre-conference workshop for the National Conference on "Eco Pulse: Monitoring Beats of Ecosystem"
- Member of IQAC committee, College magazine committee, DLLE committee, Cultural committee
- Expert and Examiner for TY Biotech University practical exams and for MSc Part I practical exams.
- Worked as a referee for MSc (2018) and PhD (2019) thesis (both submitted to Institute of Chemical Technology, Mumbai).

AUGUST 2014-AUGUST 2015

Research associate/ Global Gene Corp, a start-up in genetic testing, based in Mumbai

- Preparing report templates for diagnostic and predictive genetic tests for clinical conditions, technical marketing material for doctors in several specialties, induction trainings for sales teams
- Designing SNP panels for various clinical conditions including pediatric/ adult liver diseases, IEMs and also Nutrigenetics panels after literature survey
- A part of routine operations process for the company

PhD research project

Title: Study on metabolism of thiopurine drugs – identification of normal and non-normal metabolizers on the basis of gene variants and phenotype

Publications

- Tilak AV, Iyer SN, Mukherjee MS, Singhal RS, Lele SS. Full-gene sequencing analysis of the N-acetyltransferase-2 in Adult Indian Population. Genetic Testing and Molecular Biomarkers (2013) 17(3): 188-194.
- Iyer SN, Tilak AV, Mukherjee MS, Singhal RS. Genotype frequencies of drug metabolizing enzymes responsible for purine and pyrimidine antagonists in a healthy Asian-Indian population. Biochemical Genetics (2012) 50: 684-693

Short communication

- Tilak A., Shah P., More A., Dubey V., Rai A., Lad M. (2025) Exploring the bioremediation potential of chromium tolerant bacteria. J-BNB, A multidisciplinary Journal, 13, 100-104

Education

2013: **PhD (Sci) Biotechnology**, Institute of Chemical Technology (Former UDCT), Mumbai. (DBT Research fellow)

2007: **CSIR-UGC Eligibility For Lectureship (NET)**

2007: **MSc- Biotechnology**, V. G. Vaze College, University of Mumbai

2005: **BSc- Biotechnology**, V. G. Vaze College, University of Mumbai

Activities

- Sangeet Visharad (First class) in “Hindustani Classical Music (Vocal)” of “Akhil Bharatiya Gandharva Mahavidyalaya”
- Organized four musical programs “Swaranjali” as theme based non-academic event in VPM’s B. N. Bandodkar College of Science (Autonomous), Thane
- Anchored a Marathi Talk show “Indradhanu” for ‘Peace of Mind’ Channel of Brahmakumaris
- Recorded songs (above 15) for various audio CDs for Brahmakumaris
- Conducted motivational lectures for students in schools, colleges, and conducted a talk on Meditation for L & T (Larsen and Toubro) employees at Powai.