




SAYALI DAPTARDAR

CONTACT

 sdaptardar@vpmthane.org

ACCOMPLISHMENTS

- Best Teacher Award (Gunijan Puraskar 2024-25) at B N Bandodkar College of Science (Autonomous) Thane
- UGC-CSIR-NET (LS) in Life Sciences (December 2017) – All India Rank 19
- Received Grant of Rs. 4,00,000/- from Mangrove Foundation, Govt. of Maharashtra
- GATE: All India Rank 745 – Score 498 (37.67%) March 2018
- CENTA TPO 2018 – Regional Rank 21 in the subject of Senior Secondary Biology
- Qualified SET exams of five states (MH, AP, TS, TN and Uttarakhand)
- Master trainer level 2 workshop of MSFDA, MS-DEED (May 2023) at IISER, Pune
- Orientation Course at UGC-HRDC, University of Mumbai (2015) with Grade A
- Refresher Courses at UGC-HRDC, University of Mumbai (2021, 2022) with Grade A
- Chairperson, BOS, Department of Biochemistry & Member of BOS, Dept of Microbiology & Dept of Biotechnology, Member, Academic Council, B N Bandodkar College of Science (Autonomous), Thane
- Lockdown Work: 4+ FDPs (Online teaching tools), R, Bioinformatics, 20+ Webinars
- IELTS Band 7.5 (December 2018)
- Designed a Certificate Course on 'Laboratory Administration & Management' & 'Food Adulteration & Quality Management'

SUMMARY

Experienced educator and researcher with a proven leadership and team-building skills, complemented by effective communication and problem-solving abilities

EXPERIENCE

In-charge, Department of Biochemistry, 08/2021 - Current VPM's B N Bandodkar College - Thane

- Conducted activities for upliftment of the department
- Encouraged teachers to undergo training and faculty development programme
- Maintained records and database for the department.
- Collaborated with team members to achieve target results

Assistant Professor, Dept of Micro-Biotech, 07/2014 - Current VPM's B N Bandodkar College - Thane

- Implemented innovative teaching - learning methodologies
- Undertook research projects of UG students
- Executed duties for assigned committees.
- Participated actively in departmental meetings, contributing to curriculum development and departmental strategy.
- Engaged in continuous professional development through attending workshops and seminars, enhancing teaching and research abilities

Programme Officer, NSS, 08/2023 - Current VPM's B N Bandodkar College - Thane

- Organized 100+ events as Programme officer
- Executed initiatives across diverse areas including environmental protection, educational enhancement, and public hygiene.
- Directed integration of NSS into educational framework in accordance with NEP.
- Prepared detailed audit and scrutiny documentation for university.
- Directed funds allocation for successful activity management.

Visiting Faculty, 06/2024 - Current

Smt. Vimladevi Khyalilalji Vagarecha College of Nursing - Thane

- Delivered comprehensive instruction on Applied Biochemistry within designated lecture periods.
- Corrected class tests and assigned internal tasks following the schedule.

- Editor & Organizing Team member for National Conference on 'Microbiome: The story untold' held on 7th & 8th January 2022
- Organizing Member for two preconference workshops & an international conference on 'Emerging Technologies for Sustainable Agriculture' (ICONTESA), January 2017
- Organizing member & Speaker for a workshop on 'Exploring New Horizons of Teaching-Learning Methodologies' on 16th July 2015
- Internal advisory board and organizing member for national Conference on EcoPulse 2024 (Bandodkar College)
- Organizing member for One Day Seminar 'Biofacets' (Sept, 2013) at Patkar-Varde College
- Organized Interdepartmental Event Kiosk & TranspoZone in January 2018, 2019 and 2020 at Bandodkar College of Science

CERTIFICATIONS

- Forensic Science: DNA Analysis (University of Cambridge) 2024
- NPTEL Biomedical Nanotechnology (IIT Roorkee) 2017 (84%)
- NPTEL Cell Culture Technologies (IIT Kanpur) 2017 (81%)
- NPTEL Health Research Fundamentals (NIE-ICMR) 2018 (82%)
- Diploma in Yog & Ayurved (Tilak Maharashtra Vidyapeeth) 2007 81%
- Diploma in Clinical Research (Catalyst Institute Delhi) Grade C
- Trained to conduct. internal audit as per ISO/ ISO 21000 : 2018

SKILLS

- Microbiology: Isolation & Preservation of culture, Staining techniques, Fermentation, Replica Plating, Plaque Assay, Biochemical Tests, Antimicrobial Susceptibility Testing (AST), UV Mutagenesis, Algal Biomass Production, Biofuel
- Animal cell culture: Growing mammalian cells, Checking viability
- Nanotechnology: Chemical synthesis of nanoparticles

Visiting Faculty, Hospital Administration,
10/2015 - 04/2023

VPM's Advanced Study Center

Conducted educational sessions covering five syllabus units for PG diploma students specializing in hospital administration.

Visiting Faculty, Human Science, 12/2015 - 04/2019

VPM's B N Bandodkar College - Thane

Facilitated learning of Biotechnology topics for Human Science pupils.

Visiting Faculty, 04/2007 - 05/2018

Biology Coaching Institutes

Guided junior college students through comprehensive Biology syllabus.

Lecturer, 06/2012 - 04/2014

Patkar-Varde College - Goregaon, Mumbai

- Used diverse teaching methods, including lectures, presentations and class activities to deliver curriculum.
- Developed tests and materials to assess and promote student learning objectives.
- Designed, planned and taught lectures based on curriculum requirements and exams.
- Assessed student assignments and examinations, providing constructive feedback to support learning outcomes.

HOD & Lecturer, 09/2010 - 04/2012

Abhinav College - Bhayandar, Thane

- Used diverse teaching methods, including lectures, presentations and class activities to deliver curriculum.
- Designed, planned and taught lectures based on curriculum requirements and exams.
- Held regular departmental meetings to communicate strengths, weaknesses and areas for development.

EDUCATION

Ph D Ongoing: Microbiology

University of Mumbai

Topic: Application studies of Nano-immobilized Microbial L-Asparaginases isolated from Indian Mangroves

Reg No. 149/17/11/17

G N Khalsa College, Matunga, Mumbai

B Ed, 2023

University of Mumbai

Dnyan Ganga Education Trust's College of Education, Thane

M B A: Human Resource, 2014

IGNOU

M. Sc. By Research: Microbiology, 2010

University of Mumbai

Topic: Nosocomial Infections in Intensive Care Units: Prevalence, Risk Factors and Bacterial Spectrum

K J Somaiya College of Science & Commerce, Vidyavihar, Mumbai

K.E.M. Hospital, Parel, Mumbai

- Molecular Biology: Extraction of biomolecules, AGE/PAGE, Western blotting, PCR, Transformation
- Biochemistry: Enzyme assays, Estimations of biomolecules, Estimations of body fluids
- Immunology: Blood typing, Immunological assays, Antigen-Antibody interactions
- Bioinstrumentation: Flow Cytometry, Chromatography, Centrifuge, Microscopy
- Biostatistics
- Bioinformatics: SPSS, BLAST, MEGA, Phylogenetic analysis, ApE Primer Design, Vaccine designing, Crisper-Cas9, Molecular Docking
- Communication skills
- Problem-solving
- Leadership
- Team building
- Active listening

ACTIVITIES

- Host and organizer of various college events at B. N. Bandodkar College.
- Active participation as a member of Examination Committee, Science Square Committee, Attendance Committee, Mentor cell and NSS committee. (VPM's B N Bandodkar College)
- Core committee member for NAAC, IV & Seminar-Workshops Committee (Patkar College)
- Member of Examination committee & Women Development Cell (Abhinav College)

LANGUAGES

English: C2
 Proficient

Hindi: C2
 Proficient

Marathi: C2
 Proficient

RESEARCH PROJECTS

- 2025: Microbial Dye Degradation
- 2024: Symbiionics, Biofuel production

B. Sc.: Microbiology, 2006

University of Mumbai

B K Birla College, Kalyan

H. S. C., 2003

Maharashtra Board

Physics, Chemistry, Biology, Mathematics

D G Ruparel College, Matunga Road, Mumbai

S. S. C., 2001

Maharashtra Board

Science, Maths, Social Science & Languages

Saraswati Secondary School, Naupada, Thane

PUBLICATIONS

- Daptardar Sayali, Dukhande Meenal, 2021, Microbial L-asparaginase: Anticancer solution hidden in Land of Mangroves, J Adv Sci Res, 0976-9595, 169-173, UGC Approved Peer reviewed Journal
- Sayali Daptardar, Darshana Kankoshe, Shubhangi Salunkhe, Aman Dubey & Ashwini Rathod, 2018, Kitchen Waste Agar: A Novel Media for Fungal Cultivation, International Journal of Creative Research Thoughts, 2320–2882, 6, 2, 388-394, UGC Approved Peer reviewed Indexed Journal with Impact factor 5.97, <http://ijcrt.org/papers/IJCRT1892897.pdf>
- Sayali Daptardar, 2018, Nosocomial Infections in Pediatric Intensive Care Unit, International Journal of Trend in Scientific Research & Development, 2456-6470, 2, 4, 940–945, Peer reviewed Indexed Journal with Impact factor 4.1, <https://doi.org/10.31142/ijtsrd14153>
- Sayali Daptardar, Unnati Padalia, 2015, Nosocomial Infections: A Threat to neonates in ICU, IMRF journals, Life Sciences International Research Journals, 2, Spl, 2347-8691, 250–252, Impact factor 1.87
- Sayali Daptardar, 2015, Nanobiotechnology: A Potential Aid to the Application of Biocement, National Seminar on Nanoscience & Nanotechnology, 2015-10-09 to 2015-10-10, 978-92-5254-967-2, 27–32
- Daptardar S, Nair A, 2014, Biocement: A Novel Approach to Explore Realms of Biological Sciences, Expanding Panorama of Microbiology, 2014-11-22, 978-93-83342-05-1, 37–40
- Vanita Gadagkar, Sayali Daptardar, Kajal Naukariya, Gaurav Purohit and Mayuri Goriwale, 2017, Decolourization of Malachite Green by Bacteria and Their potential Application in Reduction of Phytotoxicity of Malachite Green, Proceedigs of International Conference on 'Emerging Technologies for Sustainable Agriculture', 978-81-92368-4-7, 43–49
- Vanita Gadagkar, Sayali Daptardar, Kajal Naukariya, Gaurav Purohit, Mayuri Goriwale and Akshay Kanchan, 2016, Microorganisms from Industrial Effluent: Potential Decolourizers of Bismarck Brown Y, JBNB, 5, 1, 2454-2776, 495–500
- Vanita Gadagkar, Sayali Daptardar, Rinchi Agrawal & Rajashri Kale, 2016, Isolation of Chromium Tolerant

- 2023: Extraction of chitin from Mushroom, Synthesis of chitosan nanoparticles
- 2019: L-Asparaginase Producing microorganisms, microbial analysis of different soils, Phenol degraders isolated and tested for quantitative estimation of degradation of phenol
- 2018: Production of Biofertilizer, Effect of Music on Microbial Growth, Isolation of Bacteriophages, Synergistic action of Plant extracts and modern antibiotics
- 2017: Kitchen Waste Agar for cultivation of fungi and bacteria, Plastic degrading bacteria
- 2016: Application of dye decolorizing bacteria to reduce phytotoxicity of the dye
- 2015: Isolation of different microalgae from lakes in Thane, Potability of Juice samples served by local vendors, Comparative analysis of Physicochemical Analysis of water of the Lakes, Enrichment of Chromium tolerant organisms from effluent samples
- 2014: Biocement Production by high yielding urease bacterial isolates, Antimicrobial Activity of different plant extract and their synergy
- 2013: Pectinase from *Aspergillus*: Extraction, Characterization & Application in Clarification of Juice

INVITED TALKS

- Delivered a Lecture on 'Personality Development' for Research Scholar Programme (April 2018)
- Delivered a talk on 'How to Make Effective Presentation?' (July 2017)
- Delivered a lecture on 'Classroom Alive!!!' along with activity session for a workshop on 'Exploring New Horizons of Teaching-Learning Methodologies' (July 2015)
- Examiner at State Level MicrobioOlympiad (27th January, 2016, 2017 & 2018) at Shirpur
- Examiner for T Y B Sc Microbiology Theory & Practical Exams at University of Mumbai
- Conducted various training sessions for teachers and extended technical support in conduct of events

organisms from Thane Creek, JBNB, 5, 1, 2454-2776, 621–624

- Dimple K., Siddhi G., Priyanka S., Sayali D., Rutuja G., 2016, Physico-chemical Analysis of Different Lakes In & around Thane City., JBNB, 5, 1, 2454-2776, 553–557
- Nikhil Pahelkar, Omkar Joshi, Rutuja Gaikwad & Sayali Daptardar, 2016, Screening of Microalgal Population of Two Lakes in Thane City, JBNB, 5, 1, 2454-2776, 514–518
- Shivani Kambli, Madhuri Ladkat, Ravali Medi, Karishma Patel & Sayali Daptardar, 2016, Fruit Juices from Local Vendor: A Risk factor for Infections, JBNB, 5, 1, 2454-2776, 533–541

ORAL / POSTER PRESENTATIONS

- Won third prize for the paper on 'Biocement: A novel Approach to Explore Realms of Biological Sciences' at CKT College (November 2014)
- Paper entitled 'Decolorization of Malachite Green by Bacteria and Their potential Application in Reduction of Phytotoxicity of Malachite Green' at an International Conference on 'Emerging Technologies for Sustainable Agriculture' (Jan 2017)
- 'Nosocomial Infections in Pediatric ICU: An Alarming Signal' at HNB Garhwal University, Uttarakhand (October 2015)
- 'Nanobiotechnology: A Potential Aid to the Application of Biocement' at Haldia Institute of Technology, Haldia, West Bengal (October 2015)
- 'Nosocomial Infections: A Threat to neonates in ICU' at national conference at CHM college, Ulhasnagar, Thane (January 2015)
- 'Malaria in Pregnancy' at XIth Symposium on Vector & Vector Borne Diseases organized by RMRC ICMR, Jabalpur in 2011.
- Poster presentation in the 'Inter University Research Festival – Avishkar 2009'
- Presented on 'Nosocomial Infections: An Emerging threat to Neonates in Intensive Care Unit' at National conference at K J Somaiya College, Mumbai. (Dec 2008)
- Presented on 'Nosocomial Infections in Pediatric Intensive care Unit' at National conference on 'Recent Trends in Biological Sciences' at K C College, Mumbai. (Sept 2008)

HANDS-ON-WORKSHOPS / CONFERENCES

- Molecular Docking, June 2025
- Google Certification for Educators, May 2025
- 3D-Bioprinting, Workshop, November 2024
- In-silico Crisper-Cas9, Workshop, July 2024
- In-silico Vaccine Designing, Workshop, June 2024.
- Workshop on Basics in Mammalian cell culture, Workshop, May 2024, NFB, Matunga
- Molecular Docking & Pharmacophore Modelling, Workshop, August 2023
- Phytase and Its Utilization for Nutritional Availability, Webinar, August 2023
- NEP Workshop, June 2023

BOOK CHAPTERS

Two book chapters published in Compendium of “RESEARCH INSIGHTS OF LIFE SCIENCE STUDENTS” Volume 3 published by JPS Scientific Publications, India

HOBBIES AND INTERESTS

- Freelancer dubbing artist
- Classical Singing – one exam
- Kathak Dance – three exams
- Certificate Course in Journalism
- Calligraphy.
- Associated with ‘Vatsalya’ & ‘Udaan welfare’ Organizations
- Blood Donation: Seven times (Last Donated on 2024-09-21)
- HPTLC workshop, KC college Mumbai & Anchrome, Mulund, March 2022.
- Advanced Summer School on Nanoscience & Nanotechnology, July 2019, West Bengal.
- Research Based Pedagogical Tools, June 2019, SDSM college, Palghar.
- ‘Statistical Analysis with Hands on Training in SPSS’ at Mumbai, Spectroscopic techniques (2019, Chennai)
- Hands-on Workshops: ‘Human Genetics’ at Mumbai (January 2018)
- A Preconference workshop and an international conference on ‘Green Earth: A Panoramic View’ (2017-18)
- Two-day workshop on ‘NET–JRF–Life Science Exam’ (Nov, 2017)
- Workshop on ‘Integrating Concepts in the Undergraduate Biology Laboratory Course’ at HBCSE (TIFR), Mumbai (Sept, 2017)
- Research Methodology Course organized by VPM's BRIMS (March 2017 to Aug 2017)
- Workshop & Hands on Training on ‘Bioinstrumentation’ (Jan, 2017), KBP College Vashi
- International Conference on Ecosystem Services of Wetlands: Ardrabhumi (Feb, 2016)
- One Day Seminar on Scientific Writing (Jan, 2016)
- National Conference on Coastal & Estuarine Habitat Restoration (Sept, 2015)
- Workshop on Flow Cytometry & Data Analysis (May, 2015)
- State level One day Seminar on Women in Science & Science for Women (7th March, 2015)
- National Seminar on Biotechnology for Better Tomorrow on 26th Feb 2015 at Ratnagiri.
- Preconference workshop & National conference on New & Emerging Trends in Bioinformatics & Taxonomy (NETBT) (Dec, 2014).
- 11 different syllabus workshops organized by BoS, Microbiology & Biotechnology, University of Mumbai.
- Course on Yeast Molecular Biology & Biochemical Analysis by Jaypee University, HP & ‘Institute for Molecular Sciences’, Frankfurt University, Germany (August, 2009)
- Short Term Training Programme on Structural & Medical Bioinformatics at TN
- National Conference on Nanotechnology & Nanobiotechnology (Oct, 2009)
- Annual Biotech Training Programme 2009 at Haffkine Institute, Mumbai (May, 2009).
- Workshop on Bacterial Ghost–based Vaccine Development (2008) at NIRRH, Mumbai
- International Conference on MDR–TB, FMR, Lonavala (Aug 2008)
