

Information for profiling

Basic Info.	<p>Name: Dr. Vidula Vijay Bindu Designation: Assistant Professor Department: Microbiology E-mail: vidula.bindu@fergusson.edu</p> <p>Work experience (in years) Teaching:20 Industrial:3 Research:14</p>
Personal Profile	<ul style="list-style-type: none"> • After completing M.Sc. in Microbiology, worked as a Microbiologist in quality control department, Lupin laboratories, Aurangabad for 3 years. • Joined academics since last 25 years as a lecturer in Microbiology, Industrial Microbiology and Biotechnology at various institutes in Pune and Aurangabad. • Obtained Ph.D in Microbiology on the topic “Bioprospecting marine microflora for biosurfactant production and evaluation of its antimicrobial potential.” under the guidance of Professor Dr. V.S. Hamde, at BAMU, Aurangabad, in October 2022. • Completed 2 BCUD (Pune) sanctioned research project as a principal investigator and co-investigator. • Worked as a BOS member in designing curriculum of UG and PG Microbiology under autonomy. • Worked as a paper setter, internal and external examiner at university level. • Guided around 25 UG and PG students in their dissertation work. • Conducted choice based concurrent evaluation under autonomy.
Course(s) Taught	Microbiology, Industrial Microbiology, Biotechnology and Vocational biotechnology at UG and PG level.
Field of specialization	General and Industrial Microbiology, Waste water treatment and Applied Microbiology
Education Qualifications (upto Graduation)	Ph.D. (Microbiology) M.Sc. (Microbiology) B.Sc. (Microbiology) SET in Life Sciences
Awards, Honors	<ul style="list-style-type: none"> • Received Best Poster Award for ‘Isolation of marine microorganisms and screening for biosurfactant

	<p>producers.’ in <i>ITCPB</i> organised by Annasaheb Magar Vidyalaya, Pune in 2016.</p> <ul style="list-style-type: none"> Received Best Poster Award for ‘Antimicrobial potential of biosurfactant derived from marine bacteria.’ <i>International conference on new frontiers in environmental and allied sciences</i>. Organised by Pro. Ramkrishna More college of ASC, Akurdi, Pune. Sponsored by research cell, SPPU, Pune
Professional Membership	Life member of Association of Microbiologists of India.
Employment History	<ul style="list-style-type: none"> Presently working as an assistant professor in Microbiology at Fergusson College (Autonomous), Pune -4 , since July 2011. June 2006 – June 2010: Modern College of Arts, Science and Commerce , Shivaji nagar, Pune. October 2005 – May 2006: Appasaheb Jedhe College, Pune. 2002-2004: Visiting faculty at Modern College of Arts, Science and Commerce, Shivaji nagar, Pune. July 2000 – December 2000: Annasaheb Magar College, Pune (Industrial Microbiology). 1997 – 1999: Teaching experience at Aurangabad in Industrial Microbiology July 1995 to April 1996: Vasantrao Naik College, Aurangabad. August 1992 – July 1995: Lupin Laboratories, Aurangabad
Research	<ul style="list-style-type: none"> Worked as a Principal Investigator and completed the BCUD (SPPU, Pune), sanctioned research project in 2010. Topic of the project: - “Studies on Bioethanol / Biofuel production using alcohol tolerant yeast”. Amount sanctioned -Rs.1,00,000/- Worked as a Co – Investigator and completed the BCUD (SPPU, Pune), sanctioned research project in 2014. Topic of the project: - “Studies on improvement of ethanol tolerance of yeast for biofuel production”. Amount sanctioned – Rs.2,70,000/- Ph.D. work on the topic “Bioprospecting marine microflora for biosurfactant production and evaluation of its antimicrobial potential” from 2015 to 2022.

Publications	<p>Book Chapter</p> <p>“Coronavirus COVID-19 world disaster” Published in the book, “The Outbreak of COVID-19 Disease and its Impact on Global Health”, chapter 17 pg.no 191-203 (Publisher: - Shriyanshi Prakashan, in 2020).</p> <p>Research publications:</p> <ul style="list-style-type: none"> • Bindu V.V., Yedewar P.G. and Hamde V.S. (2022). Isolation of biosurfactant producing <i>Pseudomonas aeruginosa</i> VB MCC 4751 from sea water near Uran beach. Paripex - Indian Journal of Research, ,11(3). (March – 2022), pp (90-94). ISSN (Online): 2250 – 1991. • Vidula Bindu¹ and Venkat Hamde², (2022). Optimization of Biosurfactant Production from <i>Pseudomonas aeruginosa</i> VB MCC 4751 Isolated from Sea Water Near Uran Beach. IAR J Pharm, 3(2), (April - 2022), pp (1-7). ISSN Online: 2709-9512. • Vidula V. Bindu¹, R. L. Deopurkar² (December 2012). “Studies on Bioethanol / Biofuel production using alcohol tolerant yeast and to increase the production of ethanol.” published in the proceedings of National conference on “Biodiversity Monitoring and Research: Current Practice and Future needs” organized by department of Zoology, Fergusson College, Pune. ISBN number is ISBN – 978 – 93 – 5087 – 589 – 6. • Meghana Kulkarni ¹, Vidula Bindu¹ (January 2014). “Isolation of alcohol producing yeast from Ficus glomerata Rox B” published in the proceedings of National Conference “Modern analytical techniques in Microbiology organized by department of Microbiology, Fergusson College, Pune. ISBN number is 978-93-5156-263-4. <p>The list of the recently published abstracts and presented papers (oral and poster) in national and international conferences:</p> <ul style="list-style-type: none"> • Vidula Bindu¹ and Smita Dharmadhikari² (2016). Isolation of marine microorganisms and screening for biosurfactant producers. <i>ITCPB</i> (2016). Organised by Annasaheb Magar Vidyalaya, Pune. Sponsored by BCUD, SPPU, Pune. ISBN:978-93-84659-28-8. Received best poster award. • Vidula Bindu¹ and Smita Dharmadhikari² (2016). Evaluation of various screening methods to isolate
--------------	--

	<p>potential biosurfactant producing marine bacteria. 6th <i>International Science Congress ISC</i> (2016). Organised by International Science Community Association in collaboration with Hutatma Rajguru Mahavidyalaya, Rajgurunagar, Pune.ISBN:978-93-84659-14-1.</p> <ul style="list-style-type: none"> • Vidula Bindu¹ and Smita Dharmadhikari² (2018). Biosurfactant: Screening, extraction and checking antimicrobial potential”. <i>International conference on microbial technology for better tomorrow (ICMTBT – 2018)</i>. ISBN:978-93-87665-45-3. Organised by Dr. D .Y.Patil Arts ,Commerce and Science college, Pune in association with Dr. D.Y.Patil Vidyapeeth, Pune and Microbiologists society, India. • Vidula Bindu¹ and Smita Dharmadhikari²(2019). Antimicrobial potential of biosurfactant derived from marine bacteria. <i>International conference on new frontiers in environmental and allied sciences</i>. Organised by Pro. Ramkrishna More college of ASC, Akurdi, Pune. Sponsered by research cell, SPPU, Pune. Received best poster award. • Vidula Bindu¹ and Smita Dharmadhikari²(2020). Isolation and screening of biosurfactant producing marine bacteria and characterization of biosurfactant. <i>National conference on “Harnessing Microbial Wealth for Start-ups in Life Sciences</i>. Organised by Department of Microbiology, SPPU in association with AMI Pune unit. • Vidula Bindu¹ and Smita Dharmadhikari²(2020).“Potential application of hydrocarbon degrading marine bacteria in biosurfactant production.” in International e-conference on “<i>Emerging methodologies in Pharma, Environmental and Life Sciences.</i>” <i>EMETHPELS-2020</i>.Conference organized by Government of Maharashtra, Ismail Yusuf College of Arts, Science and Commerce, Jogeshwari, Mumbai. • Meghana Kulkarni 1, Vidula Bindu¹ (2014).”Studies on improvement of ethanol tolerance of yeast for biofuel production”, <i>INNOVATION 2014, Regional research conference for college teachers(Chemistry, Life sciences and Engineering)</i>, Organised by BCUD, Pune, on 29th – 30th April 2014.
--	---

<p>Participations in Conferences/Seminars/Symposia/Workshop</p>	<ul style="list-style-type: none"> • Participated in the National Seminar on ‘Implementation of Multi and Trans – Disciplinary Education under NEP 2020’ from 18th – 20th January 2023 organized by Fergusson College (Autonomous), Pune • Completed 'Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop on Saturday, 16 May 2020' organized by the Teaching Learning Centre (ICT) at IIT Bombay. Attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work. • Successfully completed One Week Pedagogical Training for Teachers on “Tools for Online Teaching Learning and Evaluation,” from 1st July to 6th July 2020, organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded. • Attended the webinar arranged by Vidya Prathisthan's Arts, Science And Commerce College, Baramati & White Code for educators to introduce and discuss the ‘Effective Teaching-Learning & Evaluation Using Learning Management System: Moodle’.on 8th May 2020. • Participated in 3 days National webinar on “Life sciences 2020-Education and Innovation for future.” From 5th – 7th May 2020 organised by Annasaheb Magar College, Pune. • Attended webinar on 22nd may,2020 on “Strengthening research capabilities remotely: Empowering Indian Research on COVID-19” organised by DBT, Government of India along with Elsevier. • Participated in the National Webinar on “AYUSH for COVID-19: Boosting Immunity With Home - Based Interventions” conducted on May 20, 2020 organised by department of M.Sc. Bioanalytical sciences,Gurunanak Khalsa College of Arts, Commerce and Science, Matunga, Mumbai. • Attended in 4 days National level workshop on ‘Analytical Biology” conducted by Dept of Microbiology, University of Pune. • Attended two days faculty development programme on "Emerging Frontiers In Sciences" Under Quality
---	--

	<p>Improvement Programme Of University Of Pune at Sinhgad College Of Science , Pune.</p> <ul style="list-style-type: none"> • Attended in the symposium on “Recent Trends in Life Sciences” conducted by Department of Microbiology – Modern College of Arts, commerce & Science. Ganeshkhind Pune. • Attended in Two Days workshop on “Syllabus of Biotechnology” and “Lecture series in Microbiology and Biotechnology.” conducted by Department of Microbiology, Modern College of Arts, commerce & Science, Shivajinagar , Pune. • Attended workshop on “Microscopy for Life Sciences” organized by Venture Centre ,NCL,Pune , from 12th to 14th January,2012. • Attended workshop on “Methodology and Details of Teaching-Learning in M.Sc Microbiology” organized by Department of Microbiology, Abasaheb Garware College, Pune,sponsored by BCUD. • Attended and presented poster in National conference on “Biodiversity Monitoring and Research : Current Practice and Future needs” , organized by department of Zoology , Fergusson College , Pune , on 7th and 8th December,2012. • Attended one day workshop on “Detailing of Restructured F.Y.B.Sc. Microbiology syllabus” organized by H.V. Desai college of ASC, Pune in association with BOS (Microbiology) sponsored by BCUD, University of Pune. • Attended in one day AMI-ASM workshop on Art of science communication, organized by AMI-ASM with Department of Microbiology, Modern college, Shivajinagar. • Attended in one day AMI workshop on research methodology, organized by AMI- with Department of Microbiology, Modern college, Ganeshkhind.
Event Organized/Conference/ Seminar/ Workshops coordinated	<ul style="list-style-type: none"> • Participated as organizing committee member in Lecture series on Microbial degradation and its applications at Department of Microbiology, Modern College of Arts, commerce & Science, Shivajinagar, Pune. • Participated as organizing committee member in State level workshop on ‘Advanced Genetic Engineering and Molecular Biology Techniques at Department of Microbiology and Biotechnology, Modern College of Arts, commerce& Science, Shivajinagar , Pune.

	<ul style="list-style-type: none"> • Participated as organizing committee member in National workshop – “Recent Trends in Applied Statistics , An Interdisciplinary Approach” Organized by Department of Statistics , Fergusson College , Pune. • Participated as organizing committee member in DBT sponsored National level conference on “Modern Analytical Techniques in Microbiology” at Department of Microbiology, Fergusson College Pune, on 17th and 18th January, 2014. • Participated as an Organizing committee member for Poster presentation competition for Post graduate students organized by Association of Microbiologists of India Pune Unit and Department of Microbiology, Fergusson College Pune, on 26th February, 2014. • Participated as organizing committee member for one day workshop on “Entrepreneurship-Gateway for Biologists”.
Additional Skills/Activities	<ul style="list-style-type: none"> • Successfully completed the UGC HRDC Pre Ph.D. coursework as a part of Ph. D. Programme in the subject Microbiology, organized by Dr. BAMU, Aurangabad during January 02 to February 15, 2021 with A+ Grade. • Conducted hands on training program on “Introduction to Pharmaceutical techniques” under DBT STAR college scheme for Third year B.Sc. students for last 5 years. • Worked as a member of First year B.Sc. admission committee and international student cell of Fergusson College. • Coordinated the activity of Nihchal Israni foundation scholarship scheme for helping the students from lower income group studying in Fergusson college. • Acted as a Judge for Poster and Model Competition in ‘Biotech Fest’ of Modern College, Shivajinagar, Pune on 27th February 2023