



Profile of the Faculty

1. General Information:

Name of the Faculty	:	Mr. Nilesh Chandrabhan Vadnere
Name of the Department	:	Department of Microbiology
Educational Qualifications	:	M.Sc. Microbiology, CSIR-UGC NET (JRF)
Present Position	:	Assistant Professor and Head of the Department
Address for Correspondence	:	Department of Microbiology, C.K. Thakur ACS College, Sector 11, Khanda Colony, New Panvel, Dist Raigad, Maharashtra (India) 410206
E-mail	:	nilesh.vadnere1@gmail.com
Contact Number	:	8898858701
Specialization	:	Microbiology
Total teaching experience	:	UG: 17 years PG: 11 years
Courses taught	:	Microbial Biochemistry, Microbial Genetics Molecular Biology Biostatistics Research Methodology General Microbiology Tool and Techniques
E. course development on microbiochem.edunext.io	:	1. Remedial course in Biochemical pathway 2. Variations in Polymerase chain reactions
Research experience	:	9 Years

2. Publication of Research Papers:

UGC listed journals	:	03
Peer reviewed journals	:	-
Non-peer reviewed journals	:	05
Conference proceedings	:	06

3. List of Publication of Research Papers

UGC listed journals:

1. **Vadnere N.C.**, Dutta R.B., Yagnik M.M., Devkar L.C., (2018). Actinomycetes rich cooked-food-waste compost for reclamation of saline and drought affected soil. *Scholarly res. J. for interdisciplinary studies*. V-7 (41), 119-123. ISSN 2278-8808
2. Vadnere, N. C. (2023). Accounting for the ecological impacts of Navi Mumbai airport development and its effects on ecosystem assessment. *Utkal Historical Research Journal*, Vol.-36, No.1(III), 367-371. ISSN : 0976-2132
3. Vadnere, N. C., Vemula, A. N., & Subramanian, P. (2023). Exopolysaccharide (EPS) production and characterization from aquatic isolates. *JAC: A Journal of Composition Theory*, Vol.-16(7), 14-17. ISSN : 0731-6755.

Non-peer reviewed journals

1. Vadnere N.C. (2014). Awareness about Adverse Effect of Plastic among Residents of Khanda Colony. *Anugoonj*, Issue No. 03, Pp: 36-39 ISSN: 2345-9731
2. Vadnere N.C. (2015). Awareness about Biodiesel Production from Used Cooking Oil among Restaurant Owners in Panvel. *Anugoonj*, Issue No. 04. Pp: 35-38. ISSN: 2345-9731
3. Vadnere N.C. (2016). Carbon Dioxide Sequestration by Palm Trees of C.K. Thakur Arts Commerce and Science College, New Panvel. *Anugoonj*, Issue No. 05, 2016 Pp: 41-44
4. Vadnere N.C. (2017). Study of Digital Payment Methods and its Awareness among thecitizens. Issue No. 06, ISSN: 2345-9731
5. Mhavarkar, S. R., & Vadnere, N. C. (2022). Use of silver nanoparticles for detection of arsenic trioxide contamination of water. *International Journal of Advanced Research in Science, Communication and Technology*, 2(4), 97-102. ISSN (Online) 2581-9429.

Conference Proceedings:

1. **Vadnere N.C.**, Mishra D.U. (2016). Microbiological solution to the problem of harmful algal bloom. Proceedings of National Seminar on Environmental Hazards and Problems: Issues and solutions. 53-56. ISBN: 978-93-89942-26-6
2. V.A. Pimpale, S.N. Patil, **N.C. Vadnere** (2012-13). Proceeding. Evaluation of Antimicrobial properties of Piper betel leaf. In National conference on New Insights of Microbial Biotechnology (NIMB). SSVPS's Late. Kmr. Dr. P.R. Ghogrey Science college, Dhule, 8/02/2013 to 9/02/2013. ISBN: 978-93-82528-81-4, Pp : 82-88. Microbiology
3. **Vadnere N. C.**, Parab V.A., Vemula A.N. (2014). Isolation of Probiotic Microbe with Anti-gastrointestinal pathogen activity from fermented food sample. *Proceedings of National Seminar on Expanding Panorama of Microbiology*. ISBN- 978-93-83342-05-1
4. **Vadnere N.C.** (2015). Use of internet in higher education. Proceedings of national seminar on Role of best practices in quality enhancement and sustenance in higher education institution. 37-40. ISBN: 978-93-83342-14-3.
5. **Vadnere N.C.**, Bhise D.A., Ravaya J.S. (2013). Isolation of a halophilic *Azotobacter spp.* from mangrove ecosystem for use as a biofertilizer in saline soils. Proceedings of New insights of microbial biotechnol. 146-152. ISBN 978-93-85828-81-4
6. Dandi, Navin & Vadnere, Nilesh & Dandi, Bhagyashri & Chaudhari, AB. (2012). Fermentative performance of thermo- and osmotolerant ethanologenic yeasts from compost for bioethanol production using high gravity wort. Conference: XIX ISAF– International Symposium on Alcoholic Fuels

4. Books

Chapter in edited book	:	03
Edited book by National publisher	:	04

Sr. No.	Chapter in Book	List of author/s as it appears in the publication	Name of the Book & the publishers, Issue no. and year of publication, page nos.	ISSN / ISBN number
1	<u>Bioethanol a critical appraisal</u>	A.B. Chaudhari, N.D. Dandi, N.C.Vadnere , U.K. Patil, S.B. Chincholkar	<i>Microorganisms in sustainable agriculture and biotechnology</i> , Springer Dordrecht Heidelberg London New York, Part II, 2012, Pp: 793-824.	ISBN: 978-94-007-2213-2
2	<u>Phytoremediation: a novel approach for remediation of hazardous materials</u>	Kundu D, Hazra C, Chaudhari AB, Dandi ND, Vadnere NC , Patil UK, Dandi BN and Shelar RD	Bioremediation of Wastes and Environmental Laws, Trivedi PC (Ed.), Avishkar Publishers, Jaipur, (2010) pp. 55-93	ISBN: 978-81-7910-326-5
03	Natural Protease Inhibitors and Their Therapeutic Potentials Against SARS-CoV-2.	Vadnere, N.C., Patil, N.P.	Maheshwari, V.L., Patil, R.H. (eds) Natural Products as Enzyme Inhibitors. Springer, Singapore (2022)	Print ISBN 978-981-19-0931-3 https://doi.org/10.1007/978-981-19-0932-0_9

Co-edited books

Sr. No.	Title	Volume and Year	ISSN
01	Anugoonj	Issue No. 3, 2014	ISSN: 2345-9731
02	Anugoonj	Issue No. 4, 2015	ISSN: 2345-9731
03	Anugoonj	Issue No. 5, 2016	ISSN: 2345-9731
04	Anugoonj	Issue No. 6, 2017	ISSN: 2345-9731

NCBI/ GenBank submissions: (2)

Published 02 DNA sequences of 5.8S rDNA of yeast to GenBank [Accession numbers: GU172373 GU172374]

5. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Genetic Modification of Ethanologenic Microbes for enhanced thermotolerance and Ethanol tolerance	21/09/2010	2 years	Rs. 1,50,000/-	University Grants Commission
Isolation and Identification of food borne Bacterium producing anti-enteropathogenic bacterial metabolite	10 /11/2010	1 Year	25000/-	University of Mumbai
Surfactant-Stable Alkaline Protease Production from Halotolerant Microbial Isolate	17/10/2014	1 Year	25000/-	University of Mumbai
Isolation of Efficient Exopolysaccharide Producing Bacteria and Studies on it's Ecofriendly Applications	10/10/2020	1 Year	100000/-	C.K. Thakur ACS College, New Panvel (Autonomous)

6. Membership:

- Biotech Research Society of India
- Microbiologist Society, India

7. Academic Staff College Orientation/Refresher courses attended:

Name of the Course	Place	Duration	Sponsoring Agency
Short Term Course	G.N. Khalsa College	07/03/2011 To 11/03/2011	UGC Academic Staff College
Orientation Course	University of Mumbai	25/09/2013 To 24/10/2013	UGC Academic Staff College
Refresher Course	University of Mumbai, Somaiya College, Mumbai	19/10/2015 To 07/11/2015	UGC AcademicStaff College
Refresher Course	University of Mumbai Birla College, Kalyan	11/10/2019 To 23/10/2019	MHRDC, Mumbai
Faculty Development Programme <u>Managing online classes and co-creating moocs.</u>	Online, Ramanuja College, University of Delhi	20/04/2020 To 06/05/2020 (Two Weeks)	MHRD, PMMMNMTT
Faculty Development Programme <u>Open Source Tools for Research</u>	Online, Ramanuja College, University of Delhi	08/06/2020 To 14/06/2020 (One Week)	MHRD, PMMMNMTT
Faculty Development Programme <u>MS-DEED Level 1 Online Workshop on Introduction to Innovative Pedagogies for UG Teachers</u>	Indian Institute of Science Education and Research Pune	11/01/2022 To 13/01/2022	MSFDA
Faculty Development Programme <u>Intensive training on Impactful Innovations and Industry Connect</u>	MSFDA, Pune & Vishwakarma University Pune	26/07/2022 To 30/07/2022	MSFDA

8. Participation in conferences, symposia, seminars and workshops (up to 2020):

Level	Presented paper	Only attended
International	04	01
National	05	23
State	00	02
University	00	14

International conference communications:

1. **Vadnere NC**, Dandi ND and Chaudhari AB (2007) Screening and isolation of thermo- tolerant ethanologenic microbe from fruit pulp compost. Proc. Intl. Symp. Adv. Food Biotechnol. Nutri., Biospectrum 2007, Nov 30-Dec 1, 2007, MACFAST, Thiruvalla, Kerala, India.
2. **NC Vadnere**, ND Dandi and AB Chaudhari (2008). Intergeneric hybridization of yeast isolate and *Trichoderma viridae* by protoplast fusion for direct conversion of cotton ginning waste to reducing sugar for ethanol production. Proc. 3rd Intl Congress on Bioprocesses in Food Industries (ICBF) 2008. 6th - 8th, Nov 2008 at Osmania University, Hyderabad
3. Dandi ND, **Vadnere NC**, Chaudhari AB, Gupta AK and Shouche YS (2009) Isolation, screening and molecular characterization of potential thermo- and osmotolerant microbes from fruit pulp compost for bioethanol production. ETBT: International Conference on Emerging Trends in Biotechnology, Dec. 4-6, 2009 at Banaras Hindu University, Varanasi. (Poster presentation by Dandi ND)
4. **Vadnere NC**, Vemula AN, Dandi ND and Chaudhari AB (2011) Genome shuffling to enhance thermotolerance and ethanol tolerance of *Saccharomyces* spp. New Horizons in Biotechnology (NHBT-2011) scheduled during Nov 21-24, 2011 at Trivandrum, Kerala
5. Dandi ND, **Vadnere NC**, Dandi BN and Chaudhari AB (2011) Fermentative performance of thermo and osmotolerant ethanologenic yeasts from compost for bioethanol production using high gravity wort. 19th International Symposium on Alcohol Fuels (XIX ISAF 2011) and 2nd Lignocellulosic Bioethanol' (2LB) Conference sponsored by European Commission and Brazil scheduled during October 10 - 14, 2011 at the Verona Fiere Congress Center in Verona, Italy. T1.2E (Oral presentation by Dandi ND).
6. Dandi ND, Dandi BN, **Vadnere NC** and Chaudhari AB (2014) High-throughput screening of potential ethanologenic multi-stress tolerant genome shuffling fusants of *Pichia kudriavzevii* for high gravity and lignocellulosic bioethanol production. Global Sustainable Biotech Congress (GSBC-2014). Dec 01-05, 2014 at North Maharashtra University, Jalgaon, India
7. **Vadnere NC**, Yagnik MM, Dutta RB, Devkar LC (2016). Actinomycetes Rich Cooked- food-waste Compost for Reclamation of Stressed Soil, International Conference on Current Trends in Biotechnology. BRSI and Vellore Institute of Technology. 08th to 10th December, 2016.

9. Conferences, symposia, seminars and workshops organized as convener/co-convener:

Level	Convener	Co-Ordinator/ Co-convener
International	--	01 (Co-Ordinator for Local Region)
National	03 Seminars	--
State	--	01 (Co-Ordinator for Mumbai University Region)
College		01 (Co-convener one day FDP)

Convener:

1. Two days UGC Sponsored National Seminar on Expanding Panorama of Microbiology, 26-27 February 2010
2. Two days UGC Sponsored National Seminar on Expanding Panorama of Microbiology, 21-22 November 2014
3. Two days RUSA sponsored National Seminar on Contemporary issues in Biosciences, (Organizing Secretary) 4-5 February 2020

Co-Convener:

1. One day RUSA Sponsored Faculty Development Programme on Healthy teaching on 18th February 2021

Co-Ordinator:

1. Global Student Solar Ambassador Workshop organized by Department of Energy Science and Engineering, IIT Bombay on 2nd October 2019: Co-Ordinator for local region.
2. State Level Microbiological contest; Mumbai University region (2020-21 & 2021-22)

10. Experience on the various committees at the college

- Science Association: Chairman: 3 years (2010-11 to 2012-13)
- National Service Scheme: Programme officer: 8 years (2011-12 to 2018-19)
- IQAC member: 13 years (2010-11 to 2020-21)
- Avishkar: member: 10 years (2010-11 to 2020-21)
- Discipline Committee: member: 12 years (2010-11 to 2023-24)
- Alumni Association: member: 06 years (2010-11 to 2016-17)
- Unnat Bharat Abhiyan: coordinator (2018-19)
- Chairman Board of studies in microbiology (2018-19 to till date)
- Coordinator, Prospectus committee (2020-21 to till date)

- Coordinator 'Institutional Research Projects Committee' (RUSA) 2020-21 & 2021-22
- Member Secretary, advisory committee, College with Potential for Excellence
- Co-ordinator, Prospectus committee (2019-20 Onwards)
- Vice-president IIE-Cell (2022-23 till date)

11. Experience on the NAAC/ IQAC of the college

- IQAC member: 10 years (2010-11 to 2020-21)
- Chairman, criterion III: 9 years (2010-11 to 2019-20)
- Chairman, criterion II: 4 year (2023-24)

12. Experience on the Various Committees at the University of Mumbai / Government

- Practical examiner: M.Sc. Part II
- Practical examiner: T.Y.B. Sc.
- Practical examiner: M. Sc. Part I
- Paper setter: M.Sc. Part I
- Paper setter: S.Y.B.Sc.
- Paper setter: Foundation course in National Service Scheme
- Member Board of Studies in Microbiology for M.Sc. (2019-20 onwards)
- Member Board of Studies in Microbiology, B. K. Birla College, Kalyan

13. Awards/recognitions received:

Level	Title	Year	Awarding agency
National	1. UGC-Junior Research Fellowship	01/01/2006 to 31/12/2007	University Grants Commission
	2. UGC-Senior Research Fellowship	01/12/2008 to 31/12/2008	
State	Appointed as University Coordinator for Microbiologist society, India	2020-21	Microbiologist society, India
University	Recognized as a Teacher of the University of Mumbai for M.Sc. degree (by papers) in Microbiology from 02/06/2014	2014 onwards	University of Mumbai