



॥ विद्या विनयेन शोभते ॥

**Changu Kana Thakur Arts, Commerce and Science College, New Panvel  
(Autonomous)**

Re-Accredited 'A+' Grade by NAAC

'College with Potential for Excellence' Status Awarded by University Grants Commission  
'Best College Award' by University of Mumbai

**Department of Biotechnology  
Research Publication**

**Research Publications/Presentations  
(Academic Year -2019-2020 to 2024-2025)**

**A) Publications by the Faculty**

Particulars	No. of Publications
Peer Viewed National Journal	01
Peer Viewed International Journal- UGC CARE	09
Non-Peer Viewed National Journal	04
Book Chapters	04
<b>Total</b>	<b>18</b>

**B) Details of Publications: (2019-2020 to 2024-2025)**

1. Bhagat, S. A., & **Kokitkar, S. S.** (2021). Isolation and identification of bacteria with cellulose-degrading potential from soil and optimization of cellulase production. J. Appl. Biol. Biotechnol, 9(6), 154-161. Available online at <http://www.jabonline.in> DOI: 10.7324/JABB.2021.96020. UGC CARE LIST-II (Indexing-Scopus, Web of Science)
2. **Sushilkumar S. Ghadage.** (2021). Isolation, Purification and Characterization Of Antibacterial Peptide From Soil In Panvel Region, ERJ-Vol VIII, Issue VI Dec 2021,140-146 (Peer Reviewed)
3. Sawant, S., & **Kokitkar, S. S.** (2022). Phytochemical Profiling and GC-MS analysis of n-

- Hexane extract of *Lavandula bipinnata* (Roth) Kuntze leaves. *The Journal of Plant Science Research*, 38(1), 357-363. (UGC CARE-I)
4. **R. D. Nanekar and S.S. Kokitkar** (2023) Isolation, genetic identification and optimization of hydrocarbon degrading bacteria from petroleum contaminated soil in Raigad region. *Ecology Env. & Conservation*. ISSN 0971-765X29 (4): pp. (1554-1561). <http://doi.org/10.53550/EEC.2023.v29i04.014> (Peer Reviewed UGC Care List II Web of Science)
  5. Kadam, S. K., Chandanshive, V. V., **Watharkar, A. D.**, Vyavahare, G. D., Kadam, A. A., Perveen, K., Choo Y, Govindwar S & Pak, J. H. (2024). Composting textile sludge using plant growth-promoting rhizobacteria in a solid-state bioreactor: a step towards zero discharge. *International Journal of Environmental Science and Technology*, 21(3), 3329-3336. ). <https://doi.org/10.1007/s13762-023-05193-0> (Peer Reviewed SCIE UGC Care List II Scopus and Web of Science)
  6. **Ghangale, S. S.**, Saler, R. S., Khandelwal, S. R., Handore, D. V., & Handore, A. V. (2024). Harnessing heavy metal-tolerant bacteria and phytotoxicity assessment for ecofriendly treatment of industrial effluents. *EQA-International Journal of Environmental Quality*, 61, 16-23. DOI: 10.6092/issn.2281-4485/19182.
  7. **S.S. Kokitkar\***, **L.R. Chavan**, **R.D. Nanekar** and **S.S. Ghadage**. (2024) Management of local fish waste by turning it into a valuable compost and observing its effect on the growth of *Vigna radiata*. *Ecology Env. & Conservation*. ISSN 0971-765X: 2024; pp. (S139-S143). Peer Reviewed UGC Care List II Web of Science
  8. **Nanekar RD, Kokitkar SS.**(2024) Isolation, Characterization and Optimization of Indigenous Petrol Degrading Bacteria from Oil Contaminated Soil. *J Pure Appl Microbiol.*18(3):2014-2023. doi: 10.22207/JPAM.18.3.52
  9. **Nanekar, R. D., & Kokitkar, S. S.** (2024). Enzyme Profiling of Petroleum Hydrocarbon-Degrading Bacteria Isolated from Oil Contaminated Soils. *Indian Journal of Science and Technology*, 17(23), 2412-2420.
  10. **Sinalkar, S., & Kokitkar, S.** (2024). Phytochemical Study, Antioxidant Activity and GC-MS Analysis of *Soymida febrifuga* A. Juss. *Indian Journal of Science and Technology*, 17(26), 2691-2697.

## Book Chapters

1. S. M. Patil, A. S. Tamboli, B. N. Bhalkar, S. N. Survase , **A. D. Watharkar**, B. H. Jeon 2023. 24 - Systems biology and multi omics integration in biological treatment of textile wastewater. *Current developments in Bioengineering and Biotechnology (Advances in Ecofriendly and sustainable technologies for treatment of textile*

wastewater) <https://doi.org/10.1016/B978-0-323-91235-8.00011-5> Elsevier  
Pages: 711-742.

2. Anita V. Handore, Vinita S. Jagtap, **Sharmila S. Ghangale**, Sharad R. Khandelwal, Avinash D. Bholay, Rajib Karmakar, Dilip V. Handore, "Bioaugmentation: an emerging ecofriendly technology for wastewater treatment (2023), Integrative Strategies for Bioremediation of Environmental Contaminants: Avenues to a cleaner society (2023): Volume 2, 978-0-443-140136 Elsevier Pages: 1-16 .
3. Anita V., Lalit K. Patil, Sharad R., **Sharmila S. Ghangale**, Mithun R., Manjiri S., Vijaya S. Ghayal, Rajib Karmakar, Abhijeet S. Jagtap, and Dilip V. Biodiversity of the Himalayas Volume 2: Utilization, Conservation and Management of Animal Resources Chapter 11-Cordyceps militaris: An Entomopathogenic Fungus as a Promising Solution for Conservation of Himalayan Cordyceps. April, 2024
4. V. S. Kamble, S. S. Kamble, S. L. Khairnar, D. K. Patil, **S. S. Ghadage**, N. K. Desai, R. N. Patil, J. M. Pawara, "Synthesis and Characterization of Metal Oxide Nanoparticles : Approaches and Techniques" Futuristic Trends in Chemical, Material Sciences and Nano Technology IIP Series, Volume 3 e-ISBN: 978-93-5747-960-8 IIP Series, Volume 3, Book 7, Part 8, Chapter 4

## **Publications in Anugoonj**

1. S. S. Ghadage, A. D. Kumthekar, "Awareness about solid waste disposal amongst the population of Domestic Sector in Panvel Region" Anugoonj, Issue No.:06, 2017 pp 53-57 ISSN No.2348-9731. **(Non- peer-reviewed)**
2. Mr. S.S. Ghadage, Ms. Sharmila S.Ghangale, Ms.R.D.Nanekar, Ms.S.P. Dongare, Ms. A. D. Kumthekar, "To Study the Awareness about Viral Pandemics and Prevention amongst Indian Population" College Level Annual Journal "Anugoonj" **(Non peer-reviewed)**, ISSN:2348-9731, (2019-2020), Pg. No.- 20-24
3. Dr. Sharmila S. Ghangale and Mrs. S. P. Dongare, "Impact of Online Education on Teaching-Learning Process and its Future Consequences in Nation Development", College Level Annual Journal "Anugoonj" **(Non peer-reviewed)**, ISSN:2348-9731, (2020-2021)
4. Dr Anuprita D. Watharkar, Madhuri D. Vaishampayan, Kanchan S. Dhole, Dr Seema S. Kokitkar, "Application of DASS-21 scale to measure the post COVID-19 depression, anxiety and stress symptoms among college adolescent students in Panvel region of Maharashtra, India, College Level Annual Journal "Anugoonj" **(Non peer-reviewed)**, ISSN:2348-9731 ,pg no 22-29(2022-2023)

## Oral Presentations by the Faculty:

	No. of Oral Presentations
International Level	21
National Level	01
State Level	--
Total	22

Sr. No.	Name of all Authors	Title of the Paper	Name of Institute	Date of Presentation
1.	S. S. Kokitkar, L. R. Chavan and S. A. Bhagat	Alleviation of adverse effects of salt stress in <i>Triticum aestivum</i> by foliar application of compatible solutes	Gopal Krishna Gokhale College, Kolhapur	7/11/2017
2.	S. A. Bhagat, S. S. Kokitkar and L. R. Chavan	Isolation of Chlorpyrifos degrading bacteria from contaminated soil and evaluation of their bioremediation potential	Gopal Krishna Gokhale College, Kolhapur	8/11/2017
3.	Dr. S. S. Kokitkar Ms. S. A. Bhagat	Screening and isolation of potential cellulolytic bacteria from soil and optimization of culture conditions for maximum cellulase production.	Prin. L. N. Welingkar Institute of Management, Development & Research, Matunga, Mumbai	20/12/2019
4.	Bhagat S.A. Kokitar S.S.	optimization of pectinase production by bacillus species using submerged fermentation	3 <sup>rd</sup> International Conference on 'Empirical and Theoretical Research (ICETR-2022)' organized by International Board for Education, Research and Development	28/01/2022 29/01/2022

5.	Smita Sawant	Phytochemical Profiling and GC-MS analysis of n-Hexane extract of <i>Lavandula bipinnata</i>	International Conference, G.N Khalsa college, Mumbai	08/04/2022 09/04/2022
6.	Rupali D. Nanekar and Seema S. Kokitkar*	Isolation, characterization and optimization of hydrocarbons degrading bacteria from oil contaminated sites of raigad region	University of Mumbai	04/08/2022 To 06/08/2022
7.	Smita Sawant, Seema Kokitkar	“Phytochemical screening, antioxidant study and Identification of active compounds using GC-MS of <i>Lavendula bipinnata</i> leaves.	International e-Conference on “Recent Innovations In Science and Technology” RIST-2023	10/01/2023 11/01/ 2023
8.	Dr. S. S. Ghangale	<i>Pseudomonas aeruginosa</i> : The Eco sustainable Tool for Bioremediation of Mercury	SANDIP University, Nashik in collaboration with Society for Green Environment, India	25/02/2022 26/02/2022 and 27/02/2022
9.	Rupali D. Nanekar and Seema S. Kokitkar*	Isolation, characterization and optimization of Diesel degrading bacteria from oil contaminated Soils of Raigad region	Mohanlal Sukhadia University, Udaipur Rajasthan	15/03/2023
10.	Bhawana. P. Nile1 and Seema. S. Kokitkar *	Screening, isolation and characterization of Cholesterol degrading bacteria from the soil Sample	Mohanlal Sukhadia University, Udaipur Rajasthan	15/03/2023
11.	Smita S. and Seema K.	Phytochemical evaluation, antioxidant potential & GC-MS analysis of soymida febrifuga (roxb.) A. Juss	Mohanlal Sukhadia University, Udaipur, Rajasthan	15/03/2023

12.	Bindu Rajaguru and Seema S. Kokitkar	In vitro propagation of <i>Quisqualis indica</i> : a Medicinal woody plant - as a sustainable approach	Mohanlal Sukhadia University, Udaipur, Rajasthan	15/03/2023
13.	Sushilkumar Ghadage	Synergistic effect of Azotobacter and L-tryptophan application for improving plant growth	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024) C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024
14.	Chavan Latika Rajendra	Effect of immobilized phosphate and silicate solubilizing bacteria on growth of <i>Vigna radiata</i>	Mahatma Phule Arts, Science and Commerce College, Panvel	23/01/2024
15.	Chavan Latika Rajendra	"Encapsulated bio-fertilizer for salinity stress mitigation"	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024) C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024
16.	Dr. Sharmila Shashikant Ghangale	"Exploring the therapeutic potential and phytochemical properties of <i>Nelumbo nucifera</i> (Indian Lotus) seeds for Health and wellness"	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024) C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024
17.	Dr. Watharkar Anuprita Dineshkumar	"Exploring phytoremediation potential of <i>Ipomea aquatica</i> Forsk to treat Scarlet RR and	International Conference on Connecting Innovations in Biotechnology	22/02/2024 23/02/2024

		real textile effluent and subsequent plant health analysis"	for Human Welfare (ICCIBH W- 2024 C.K. Thakur College ACS, New Panvel (Autonomous)	
18.	Mrs. Bhawana Prashant Nile	"Comprehensive study of cholesterol oxidase production by <i>Bacillus inaquosorum</i> : molecular characterization, phylogenetic analysis, and optimization studies"	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024 C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024
19.	Madhuri Darshan Vaishampayan	"A Preparation of fish feed from plant source and to check Effect on <i>Arassius auratus</i> and <i>Poecilia reticulata</i> "	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024 C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024
20.	Ms. Nanekar Rupali Dinbandhu	"Activity study of catalase, lipases, and catechol 1,2-dioxygenase from petroleum hydrocarbon degrading bacteria"	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024 C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024
21.	Smita Viplav	Determination of Phytochemical Profile, Antioxidant Efficacy and GC-MS analysis of <i>Lavendula bipinnata</i>	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH	22/02/2024 23/02/2024

			W- 2024 C.K. Thakur College ACS, New Panvel (Autonomous)	
22.	Bindu Rajaguru	Molecular Identification of Combretum indicum, from Navi Mumbai, Maharashtra, using DNA Barcoding Approach	International Conference on Connecting Innovations in Biotechnology for Human Welfare (ICCIBH W- 2024 C.K. Thakur College ACS, New Panvel (Autonomous)	22/02/2024 23/02/2024



## A) Poster Presentations by the Faculty

	No. of Poster Presentations
National Level	01
International	02
Total	03

Name of all authors	Title of the paper	Name of Institute	Date of Presentation
Ms. Sonali P. Dongare	Green synthesis of Benzimidazoles	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	17/02/2020 18/02/2020
Dr. Anuprita Watharkar	Lab to land Transfer of green Technology: Ex situ horizontal subsurface flow phytoreactor to treat real textile effluent and direct blue GLL and In situ plantation of Dwarf Jasmine to remediate effluent polluted site.	International Conference on Advances in Biotechnology: Current Discoveries and Future Perspectives (ICAB-2023). Amity Institute of Biotechnology, Amity University Mumbai	17/10/2023- 18/10/2023
Lama Sirkhot	Synthesis of nanofertilizer using orange peels and check its effect on growth of <i>Vigna radiata</i>	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024

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