



॥ 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 Profile of**


**Research Centre
(For Ph.D. in Science in the subject of Biotechnology)**

(Under University of Mumbai)

1. Information of the Research Centre

1.	Name of the Incharge of center	:	Dr. Seema S. Kokitkar
2.	Date of the establishment:	:	17/10/2015
3.	No. of research guides at present	:	01
4.	Intake Capacity of the Research Centre	:	05
5.	No. of the Ph.D. Scholars awarded PhD degree till date	:	01
6.	No. of the Ph.D. Students enrolled for the Ph.D. at the centre	:	05

2. Research Guides in Science in the subject of Biotechnology

Sr. No.	Name of the Research Guide & Designation	Date of Recognition with Letter No.	
1.	Dr. (Mrs.) Seema S. Kokitkar Designation- Assistant Professor & Head Department of Biotechnology	PG/2/ICD/2015- 16/44646 /9-6-2015	

2. Details of the Ph.D. students at the Centre: 05

Sr. No.	Full Name of the Learner	Name of the Research Guide	Area of Research	Date of Registration
1.	Ms. Shweta A. Bhagat Ph.D. Awarded	Dr. Seema S. Kokitkar	Biotechnology	02/09/2016
2.	Ms. Rupali D. Nanekar	Dr. Seema S. Kokitkar	Biotechnology	23/10/2018
3.	Ms. Bindu Rajaguru	Dr. Seema S. Kokitkar	Biotechnology	27/11/2018
4.	Mrs. Bhawana P. Nile	Dr. Seema S. Kokitkar	Biotechnology	10/02/2020
5.	Mrs. Smita V. Sawant	Dr. Seema S. Kokitkar	Biotechnology	10/02/2020
6.	Ms. Latika L. Patil	Dr. Seema S. Kokitkar	Biotechnology	27/06/2024

Research Activities in the Department (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
Total	18

B) Oral Presentations by the Faculty:

	No. of Oral Presentations
International Level	20
National Level	01
State Level	--
Total	21

Sl. 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 and 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. Kokitkar S.S.	optimization of pectinase production by bacillus species using submerged fermentation	3 rd 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	4/08/2022 to 6/08/2022
7.	Smita Sawant, Seema Kokitkar	“Phytochemical screening, antioxidant study and Identification of active compounds using GC-MS of Lavendula bipinnata leaves.	International e-Conference on “Recent Innovations In Science and Technology” RIST-2023	10/01/2023 to 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 to 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. Nile ¹ 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 soyamida 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 to 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.	Ms. Nanekar Rupali Dinbandhu	"Activity study of catalase, lipases, and catechol 1,2-dioxygenase from petroleum hydrocarbon degrading bacteria"	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
16.	Mrs. Bhawana Prashant Nile	"Comprehensive study of cholesterol oxidase production by <i>Bacillus inaquosorum</i> : molecular characterization, phylogenetic analysis, and optimization studies"	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
17.	Dr. Sharmila Shashikant Ghangale	"Exploring the therapeutic potential and phytochemical properties of <i>Nelumbo nucifera</i> (Indian Lotus) seeds for Health and wellness"	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
18.	Chavan Latika Rajendra	"Encapsulated bio-fertilizer for salinity stress mitigation"	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
19.	Dr. Watharkar Anuprita Dineshkumar	"Exploring phytoremediation potential of <i>Ipomea aquatica</i> Forsk to treat Scarlet RR and real textile effluent and subsequent plant health analysis"	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
20.	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> "	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
21	Bindu Rajaguru	Molecular Identification of <i>Combretum indicum</i> , from Navi Mumbai, Maharashtra, using DNA Barcoding Approach	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024

C) Poster Presentations by the Faculty

	No. of Poster Presentations		
National Level	01		
International Level	02		
Total	03		
Name of all authors	Title of the poster	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
Ms. Lama Inayet Sirkhot	Synthesis of nanofertilizer using orange peels and to check its effect on <i>Vigna radiata</i>	Changu Kana Thakur A.C.S. College New Panvel (Autonomous)	22/02/2024 23/02/2024
Dr. Anuprita D. 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

D) Patents/Copyrights

Sr. No.	Title of the Patent/Copyright	Name of the Teacher	Date of Filing	Patent Number/ Copyright Number	Current Status
1.	Comparative analysis between <i>Ascophyllum nodusum</i> extract & fruit peels waste extract on germination & growth of mung bean	Dr. Seema Kokitkar and Ms. Rupali D. Nanekar	13/01/2022	L-114366/2022	Granted

2.	Effect of Fe ₃ O ₄ (Iron oxide) nanoparticles on the growth of Salt stressed <i>Lablab purpureus</i>	Dr. Seema Kokitkar and Ms. Shweta A. Bhagat	14/02/2022	L-117620/2022	Granted 23/09/2022
3.	Oral suspension Composition of <i>Prunella Cretensis</i> For Antimicrobial Infections	Mr. Sushilkumar Ghadage (*with microbiology Dept.)	06/03/2023	202321015055	Patent Filled
4.	Assessment of different seed priming treatment and their growth attributes in pulses i.e. <i>Vigna radiata</i> and <i>Vigna aconitifolia</i>	Dr. Seema Kokitkar & Bhawana suryawanshi	08/08/2023	L-131653/2023	Registered
5.	Use of groundnut shell waste as plant growth enhancer	Ms Rupali Nanekar Dr. Seema Kokitkar	15/05/2023	L-130569/2023	Registered

- Dr. Seema Kokitkar, Ms. Shweta A. Bhagat, Ms. Rupali D. Nanekar and Ms. Bhawana Nile: 20 Bacterial gene sequences has been deposited in GenBank (NCBI). Accession number was provided to individual isolates.
