

## Profile of the Faculty



### 1. General Information:

Name of the Faculty	: <b>Dr. (Mrs.) Seema S. Kokitkar</b>
Name of the Department	: Biotechnology
Educational Qualifications	: M.Sc., Ph.D., Postdoc. (NET, GATE)
Present Position	: Assistant professor & Head
Address	: Department of Biotechnology, C.K.T. College, Plot No. 1, Sector-11, Khanda Colony, New Panvel District Raigad, Maharashtra, India
E-mail	: <a href="mailto:seemak@ckthakurcollege.net">seemak@ckthakurcollege.net</a>
Specialization	: Biochemistry and Biotechnology
Total teaching experience	: 22 years
Courses taught	: Biochemistry, Immunology ,Genetic engineering, PTC, ATC
Research experience	: 21 years
Number of students registered for Ph.D. degree	: 04
Number of students awarded Ph.D. degree	: 01
Number of students awarded M.Phil degree	: 01

## 2. Publication of Research Papers:

UGC listed journals	:	<b>05</b>
Peer reviewed journals	:	<b>02</b>
Non-peer reviewed journals		<b>03</b>
Conference proceedings	:	<b>05</b>

## 3. List of Publication of Research Papers:

1. Tanuja Upadhayay, **Seema Chavan** and D. P. Mishra. 'A study on polyamine accumulation under salt stress in salt resistant and salt sensitive varieties of rice'. *International Journal of Physiology & Mol. Biol. Plants* (2001) 7:55-59.
2. **Seema Chavan**, B.D. Lakhchaura\* and V. Umapathi. Early pregnancy diagnosis in cattle and buffaloes from milk. *The Indian Journal of Animal Reproduction*; 24(2): 106-108; December 2003.
3. **Seema Chavan** and Lakhchaura B.D. Immunodiagnosis of Pregnancy. Conference Paper in *Advances in Immunology and Immunopathology*, Proceeding of national symposium on immunomodulation in health and diseases. 2001, pp 93-97.
4. **Seema Kokitkar**, Shweta Bhagat, Omkar Raut and Tukaram Shelke. 'effect of various temperatures on antioxidants present in *Annonasquamosa L.*' *Journal Bionano Frontier*, , 2014, Volume 07, Special Issue 12, pp No. 86-88
5. Poonam Dayaram, **Seema Kokitkar**, Bhupesh Mali, Ravina Mhaskar, Shubhangi Jamdar and Rohit Jadhav. 'Enumeration and Characterization of Pathogenic Microbial Load from Automatic Ticket Vending Machine in Mumbai's Harbour Route', *Journal Bionano Frontier*, 2013, Volume 06, Special Issue 03 pp97-99.
6. PoonamDayaram **Seema Kokitkar**, Kritika Choubey and Neha Natekar. 'Preservation studies of pathogenic microorganisms in saline suspension', *Journal Bionano Frontier*, 2014, Volume 07, Special Issue 12pp No. 136-137.
7. Smita Sinalkar, **Seema Kokitkar** and Swati Singh. 'Potential benefits of *Punicagranatum*', *Journal Bionano Frontier*, 2014, Volume 07, Special issue 12, pp No. 70-74.
8. Latika C., **Seema K.** and Akshya P. 'To study the effect of *Allium sativum* oil on acne causing bacteria', *Journal Bionano Frontier*, 2014, Volume 07, Special issue 2, ,pp No. 39-41

9. **S.S. Kokitkar, L.R. Chavan and S.A. Bhagat:** Alleviation of Adverse Effects of Salt Stress in *TriticumAestivum*by Foliar Application of Compatible Solutes. International Journal Of Researches In Biosciences, Agriculture And Technology, Vol. V, Special Issue (3), pp., 272-276 (ISSN 2347 – 517X) **UGC Approved Journal**
10. **S.A. Bhagat, S.S. Kokitkar and L.R. Chavan:** Isolation of chloropyrifos degrading bacteria from contaminated soil and evaluation of their bioremediation potential. International Journal Of Researches In Biosciences, Agriculture And Technology, Vol. V, Special Issue (3), pp., 308-312 (ISSN 2347 – 517X) **UGC Approved Journal**
11. Shweta Bhagat and **Seema Kokitkar \***. Isolation and identification of bacteria with cellulose-degrading potential from soil and optimization of cellulase production. Journal of Applied Biology & Biotechnology Vol. 9(06), pp. 154-161, **November, 2021**. Available online at <http://www.jabonline.in> DOI: 10.7324/JABB.2021.96020. **UGC CARE LIST-II** (Indexing-Scopus, Web of Science)
12. **Smita Viplav Sawant and Seema Sambhaji Kokitkar\*** Phytochemical Profiling and GC-MS analysis of n-Hexane extract of Lavandula bipinnata (Roth) Kuntze leaves. Jour Pl Sci Res 38 (1) 357–363 2022. **UGC CARE-I**
13. R.D. Nanekar and **S.S. Kokitkar\*** Isolation, genetic identification and optimization of hydrocarbon degrading bacteria from petroleum contaminated soil in Raigad region. ISSN 0971–765X 29 (4): 2023; pp. (1554-1561)  
<http://doi.org/10.53550/EEC.2023.v29i04.014>

#### **Non peer reviewed**

1. **S.S. Kokitkar**, R.S. Gharat and P. Kumbhar Survey on nutritional status of pregnant women in Panvel, **Anugoonj**,2013 , Issue 03, pp 60-62 (**ISSN No.2345-9731**)
2. **S.S. Kokitkar , Poonam D., S.S. Sinalkar** Survey on uptake of liquid diet by people of different age groups in and around Panvel., **Anugoonj** ,2013 , Issue 03, pp 55-59 (**ISSN No.2345-9731**)

#### 4. Books:

Reviewed Book	:	Textbook of Basic and Clinical Immunology by Dr. Sudha Gangal (University Press)
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#### 5. Oral Presentations:

Sl. No.	Name of all Authors	Title of the Paper	Name of Institute	Date of Presentation
1.	<b>S. S. Kokitkar</b> , 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 <b>S. S. Kokitkar</b> 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.	<b>Dr. S. S. Kokitkar</b> 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. <b>Kokitkar S.S.</b>	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.	Rupali D. Nanekar and <b>Seema S. Kokitkar*</b>	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

6.	Smita Sawant, <b>Seema Kokitkar</b>	“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	10/01/2023 11/01/ 2023
7.	Rupali D. Nanekar and <b>Seema S. Kokitkar*</b>	Isolation, characterization and optimization of Diesel degrading bacteria from oil contaminated Soils of raigad region	Mohanlal Sukhadia University, Udaipur, Rajasthan	15/03/2023
8.	Bhawana. P. Nile1 and <b>Seema. S. Kokitkar *</b>	Screening, isolation and characterization of Cholesterol degrading bacteria from the soil Sample	Mohanlal Sukhadia University, Udaipur, Rajasthan	15/03/2023
9.	Smita S. and <b>Seema K.</b>	Phytochemical evaluation, antioxidant potential & GC-MS analysis of <i>soymida febrifuga</i> (roxb.) A. Juss	Mohanlal Sukhadia University, Udaipur, Rajasthan	15/03/2023
10.	Bindu Rajaguru and <b>Seema S. Kokitkar</b>	In vitro propagation of <i>Quisqualis indica</i> : a Medicinal woody plant - as a sustainable approach	Mohanlal Sukhadia University, Udaipur, Rajasthan	15/03/2023

6. 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.

#### 7. Research Projects Completed: AS PRINCIPLE INVESTIGATOR

Sl. No.	Title of the project	Date of sanction	Duration	Grant Sanctioned	Funding agency
1.	Production, Purification and Immobilization of $\beta$ -glucosidase from Cellulolytic Isolates of Raigad District and to Check its Potential for Hydrolysis of Lignocellulosic Biomass for Bioethanol Production	28/07/2017	02 Years	4,50,000/-	University Gant Commission

2.	Isolation, purification and Characterization of Protease and Lipase from Isolates in Raigad District and their Comparative Study in Oil Degumming for Biodiesel Production	21/09/ 2010	02 Years	2,00000/-	University Gant Commission
3.	<i>Punica granatum</i> peel and <i>Citrullus lanatus</i> rind mediated green synthesis of Cu Nanoparticles: An Eco-Friendly Approach	17/10/2014	01 Years	30,000/-	University of Mumbai
4.	Effect of salinity On callus of <i>Jatropha curcus L.</i> and role of osmolytes	26/11/2010	01 Years	35,000/-	University of Mumbai
5.	Effect of salt stress on carotenoid content in different food sources	14/02/2007	01 Years	30,000/-	University of Mumbai
6.	Management of local fish waste by turning it into a valuable organic fertilizer: An eco-friendly Approach	10/10/2020	01 Years	1,00,000/-	RUSA
7.	Construction of a Microbial Consortium for Effective Valorization of Lignocellulosic Biomass and production of bioethanol	1/1/2024	(Thakur Infracrojects Pvt. Ltd. (TIPL) Panvel	2 years	4,80,000/-

### 8. Research Projects Ongoing : AS CO-INVESTIGATOR

Sl. No.	Title of the project	Date of sanction	Duration	Grant Sanctioned	Funding agency
1.	Development of lab and pilot scale bioreactor for the treatment of a real textile effluent and subsequent toxicity studies in concern with public health in Maharashtra.	18/01/2023	01 Years	1,00,000/-	RUSA

2.	Screening, isolation and characterization of Cholesterol oxidase from novel micro-organisms.	18/01/2023	01 Years	1,00,000/-	RUSA
3.	To Study the therapeutic effect and Phytochemical properties of <i>Nelumbo nucifera</i> (Indian Lotus) seed and its application.	18/01/2023	01 Years	1,05,000/-	RUSA

### 9. Copyrights

Sr. No.	Name	Title of Copyright	Year	Copyright Registration Number	Copyright Granted
01	Dr. Seema Kokitkar and Ms. Rupali D. Nanekar	Comparative analysis between <i>Ascophyllum nodosum</i> extract & fruit peels waste extract on germination & growth of mung bean	2021-2022	L-114366/2022	Granted
02	Dr. Seema Kokitkar and Ms. Shweta A. Bhagat	Effect of Fe <sub>3</sub> O <sub>4</sub> (Iron oxide) nanoparticles on the growth of Salt stressed <i>Lablab purpureus</i>	2022-2023	L-117620/2022	Granted
03	Dr. S.S. Kokitkar & Ms. B.R. Suryawanshi	Assessment of different seed priming treatment and their growth attributes in pulses i.e. <i>Vigna radiata</i> and <i>Vigna aconitifolia</i>	08/08/2023	L-131653/2023	Granted
04	Ms R.D. Nanekar Dr. S.S. Kokitkar	Use of groundnut shell waste as plant growth enhance	15/05/2023	L-130569/2023	Granted

**10. Academic Staff College Orientation/Refresher courses attended:**

<b>Sr. No.</b>	<b>Name of the Course</b>	<b>Place</b>	<b>Duration</b>	<b>Sponsoring Agency</b>
1.	Short Term Course	University of Mumbai	07/03/2011 to 11/03/2011	UGC
2.	Orientation Course	UGC HRDC, LNCPE Gwalior	26/11/2019 to 16/12/2019	RUSA
3.	Refresher Course	University of Mumbai	20/02/2017 to 11/03/2017	RUSA
4.	10 Days Work shop on the development of E- Content development	Universal Teachers Academy Puducherry	21/04/2020 to 30/04/2020	Universal Teachers Academy Puducherry
5.	Refresher Course	HRDC Nainital	03/03/2021 to 16/03/2021	UGC
6.	Faculty Development Programs Advanced Concepts For Developing Moocs	Ramanujan College, University of Delhi	02/07/2020 to 17/07/2020	Ministry of Education Gov. of India
7.	One week Online International Workshop on Advance Statistical Data Analysis using SPSS	Science Tech Institute (Run by MKS Educational Society), Lucknow, UP India.	21/01/2022 to 27/01/2022	MKS Educational Society
8.	One Week FDP	e-Content & MOOCS Creation: Hands on Training	18/09/2022 to 23/09/2022	RUSA
9.	One Week Faculty Development Program Research Methodology	Guru Nanak College of Arts, Science and Commerce G.T.B Nagar, Mumbai - 400037	06/02/2023 to 11/02/2023	Guru Nanak College of Arts, Science and Commerce
10.	One Week Faculty Development Program	Ramanujan college	15/12/2023 to 21/12/2023	

**11. Participation in conferences, symposia, seminars and workshops: (2015-16 to 2022-2023)**

<b>Level</b>	<b>Presented paper</b>	<b>Only attended</b>	<b>Chaired session</b>	<b>Resource person</b>	<b>Online webinars and workshops during Covid-19</b>
International	<b>07</b>	<b>02</b>	<b>02</b>	--	<b>01</b>
National	--	<b>13</b>	--	--	<b>06</b>



State		<b>04</b>			--
University	--	<b>12</b>	--	<b>01</b>	<b>04</b>

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

<b>Level</b>	<b>Convener</b>	<b>Co-convener</b>
International	<b>Nil</b>	<b>Nil</b>
National	<b>03</b>	<b>01</b>
State	--	
University	<b>02</b>	--

**13. Experience on the various committees at the college-**

- Member Secretary Research Development Cell (2022-2023 till date)
- Member Research Ethics Committee (2022-2023 till date)
- Chairperson of Avishkar Research committee (2013-2014 to till date) – College won 05 times overall championship and three time runners-up position in Avishkar Research Convention, University of Mumbai under my chairpersonship.
- Member of the Examination Committee (2018-19 –till date)
- Member of Library Advisory Committee (2017-till date)
- Chairperson of Science Association (2012-2013)
- Member of time table committee (2009-2013)
- Member of teacher- parent committee (2005-2013)
- Member of discipline committee (2008-2013)
- Member of Research association, (2009-2012)
- Member of specialty programme committee, (2006-2013)
- Member of career oriented courses committee,(2006-2013)
- Member of Alumni association,(2006-2013)
- Member of Cultural association,(2007-2010)
- Member of Avishkar Research Committee,(2008-2010)
- Member of Library Advisory Committee(2013-2014)

**14. Experience on the NAAC/ IQAC of the college**

- Member of IQAC (2019-2020 till date)
- Member of the committee for criteria –III
- Editor of the booklet on Avishkar for third cycle of NAAC and Silver Jubilee Year.

- Represented the Department at First, Second and Third Cycle of NAAC as head of the Department.

**15. Experience on the Various Committees at the University of Mumbai / Government- Awards/recognitions received :**

<b>Level</b>	<b>Title</b>	<b>Year</b>	<b>Awarding agency</b>
University	• Vice Chancellor Nominee in board of studies in Bioanalytical Science, G.N. Khalsa Collge, Mumbai	2022-2023 till date	University of Mumbai
	• Member of Ad hock board of studies in Biotechnology, University of Mumbai	Sept-2019-till Date	University of Mumbai
	• Member of Ad hock board of studies in Bioanalytical Science, University of Mumbai	Sept-2019-till Date	University of Mumbai
	• Member of board of studies in MGM school of Biomedical Science	2019 –till date	MGM University of health Science
	• Member of Local Enquiry Committee University of Mumbai for Ph.D., UG, and PG affiliation visited: Vaze College, Gogte Joglekar College Ratnagiri, CHM College, Viva College, Thakur College, and Pillai College.	--	University of Mumbai
	• Member of M. Sc. Biotechnology syllabus revision committee, University of Mumbai	2018-2019	University of Mumbai
	• Visited as a member of Local Enquiry committee, University of Mumbai		University of Mumbai
	• Recognized research guide for Ph.D. Science in the subject of Biotechnology, University of Mumbai	2015-2016	University of Mumbai
	• Recognized guide for M.Sc. by Research in Biotechnology, University of Mumbai	2012-2013	University of Mumbai
	• Recognized PG Teacher in Biotechnology, University of Mumbai	2012-2013	University of Mumbai

	<ul style="list-style-type: none"> <li>Recognized research guide for M.Phil biotechnology, distant education</li> </ul>	2006-2007	Alagappa University, Tamilnadu.
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- Achievements in Avishkar Research Convention-Projects guided for Avishkar Research Convention, which won medals at University Level**

Sr. No.	Name of the Student	Category	Year	Level	Achievement
1.	Ms. Priyanka S. Verma	C-4/UG	2014-15	University	Gold Medal
2.	Ms. Dhanshree Dudvadkar	C-4/pG	2014-15	University	Silver Medal
3.	Ms. Shweta A. Bhagat	C-4/PPG	2018-19	University	Silver Medal
4.	Ms. Rupali D. Nanekar	C-3/PPG	2021-22	University	Consolation Prize
5.	Mrs. Rajaguru Bindu	C-3/TH	2021-22	University	Gold Medal
6.	Ms. Rupali D. Nanekar	C-3/PPG	2022-23	University	Consolation Prize
7.	Ms. Bhawna Nile	C-3/PPG	2023-24	University	Bronze Medal

- Best Teacher Award by Ramsheth Thakur Samajik Vikas Mandal
- Smita Sawant and **Seema Kokitkar** , First Prize in Oral Presentation in International Conference on Recent Innovations in Science & Technology organized by Ismail Yusuf College of Arts, Commerce & Science Jogeshwari Mumbai on 10/01/2023 and 11/01/ 2023

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