


Biodata

Name: Dr. Savita Ajay Kate	
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Designation: Head of Department	
Qualification: M.Sc.(Microbiology), DMLT, SET, Ph.D.	
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Teaching experience (in years): 15 years	
Research interests:	
Number of research articles published:	18
Number of books / book chapters/ conference proceedings published:	10
Number of papers presented in seminars / conferences	05
Number of minor research projects completed / ongoing	01
Awards and Achievements:	Citations- 68 h-index- 5 i10-index-3

• **Details of research articles published:**

Sr. No	Title of research paper	Year of publication	Authors	Name of Journal Vol./ Issue No., pp-pp	ISSN	Level	UGC Listed / Peer reviewed	Impact factor
1	Study of efficiency of Keratinase production by <i>Arthrobacter creatinolyticus</i> KP 015744 isolated from leather sample.	2014	Savita Kate, Archana Pethe	International Journal of Advanced Research	2320-5407	International	47231 UGC	6.1
2	Production of collagenase by	2015	Savita Kate, Archana	International Journal of		International	48798 UGC	0.765

	<i>Bacillus</i> KM369985 isolated from leather sample.		Pethe	Research in Biosciences	2319-2844			
3	Green Synthesis and Characterization of Silver Nanoparticles by using Aloe barbadensis and its Antibacterial activity	2015	Kate S et al.	Journal of Global Biosciences	2320-1355	International	Peer reviewed	1.419
4	Screening of Leather deteriorating Microflora	2016	Savita Kate, Archana Pethe	International Journal of Scientific Research	2277-8179	International	5399 UGC	3.508
5	Screening of Protease Producers from Soil and its application as a Biocleaner	2018	Savita Kate, et al.	IAETSD Journal for Advanced research in Applied Sciences	2394-8442	International	63188 UGC	5.8
6	Isolation and Screening of Poly β -Hydroxybutyrate Producing Microbes	2019	Savita Kate, et al	International Journal of Research and Analytical Reviews	2348-1269	International	43602 UGC	4.2
7	Screening of lipase producing fungi and its application	2019	Savita Kate, et al.	International Journal of Research and Analytical Reviews	2348-1269	International	43602 UGC	4.2
8	Production and optimization of Polyhydroxybutyrate and its application in bioplastic production	2019	Savita Kate, et al.	International Journal of Scientific Research in Biological Sciences	2347-7520	International	63784 UGC	1.013
9	Alkaline phosphatase production by <i>Enterobacter hormaechei</i> isolated from birds fecal waste and its optimization.	2020	Savita Kate, et al.	International Journal of Advanced Science and Technology	2005 - 4238	International	Scopus	0.76
10	Production and optimization of biodiesel from different generations	2020	Savita Kate, et al.	Journal of Global Biosciences	2320-1355	International	Peer reviewed	1.419

11	Mycosynthesis of silver nanoparticles from mycelium extract of <i>Penicillium</i> species and its antimicrobial activity against clinical isolates	2020	Savita Kate, et al.	Journal of Global Biosciences	2320-1355	International	Peer reviewed	1.419
12	Biogenic Silver Nanoparticle Synthesis, Characterization and its Antibacterial activity against Leather Deteriorates	2020	Savita Kate, et al.	Jordan Journal of Biological Sciences	1995-6673	International	Scopus	0.86
13	Study Of Collagenase Production By <i>Penicillum</i> Sp. Isolated From Deteriorated Leather Sample	2022	Savita Kate, Archana Pethe	Journal of Advanced Scientific Research	0976-9595	International	Peer reviewed	12.8
15	Screening Of Laccase Producer From Soil And Its Applications	2022	Rutuja Palaskar, Savita Kate	Journal of Advanced Scientific Research	0976-9595	International	Peer reviewed	12.8
16	Metallo-Collagenase Production By <i>Arthrobacter Creatinolyticus</i> KP015744	2022	Savita Kate, Archana Pethe	Advances in Environmental Research	2234-1730	International	UGC Web of Science	7.95
17	Feather Meal Preparation From Chicken Feathers And Its Application	2022	S.A. Kate, et al.	<i>Asian Jr. of Microbiol. Biotech. Env. Sc.</i>	0972-3005	International	UGC Scopus	7.17
18	Synthesis, Characterization and Antimicrobial Activity of Copper Oxide Nanoparticles Using Sol-Gel Method	2023	S.A. Kate, et al.	Clinical Interventions and Clinical Trials	2993-1096	International	Peer reviewed	
19	Keratinase of <i>Bacillus cereus</i> Lr3/2 KP015746 from deteriorated leather samples	2023	Savita Kate	South Asian J Exp Biol	2230-9799	International	UGC Web of Science	6.2

20	Biodegradation Of Plastic (Ldpe) By Bacteria From Garbage Soil	2023	S.A. Kate, et al.	International Journal of biology ,Pharmacy and Allied Sciences (IJBPAS)	22774 998	International	UGC Web of Science	1.022
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• **Details of articles published in conference proceedings:**

Sr. No.	Title of article	Authors	Name of conference	Organizer	Date
1	Screening of Keratinase producers from Leather	Savita Kate and A. Pethe	6 th International Congress of Environmental Research	Maulana Azad College, Aurangabad	March 2014
2	Study of Metallo-Keratinase from <i>Bacillus pumilus</i> KP015747 isolated from leather sample	Mrs. Savita Kate	Analytical Chem Teacher's and Researcher's Association and Dr.Rafiq Zakeria campus-I, Maulana Azad college, Aurangabad.	Maulana Azad College, Aurangabad	Jan .2017
3	Production of an Extracellular Keratinase from <i>Bacillus amyloliquefaciens</i> KP015745 leather deteriorates	Savita Kate, Arachana Pethe	One day National Conference on Innovative Trends in Life Sciences	Shri Vyankatesh Arts, Commerce & Science College, Deulgaon Raja, Dist, Buldhana	Dec.2017
4	Isolation of Lactic Acid Producing Bacteria And Production Of Lactic Acid Using Different Substrate	Savita Kate , Madhuri Sahasrabudhe	One Day National e-Conference on "Evolving era of life sciences"	Department of Microbiology and Biotechnology Shivchhatrapati Aurangabad	3 rd March 2023
5	Heavy Metal (Mn) Degradation By <i>Aspergillus Sp.</i>	Kate Savita et al.	One Day National e-Conference on "Evolving era of life sciences"	Dept. of Microbiology and Biotechnology Shivchhatrapati Aurangabad	3 rd March 2023
6	Isolation of Feather Degrading Fungi From Soil Sample	Nandini Ahire Savita Kate	One Day National e-Conference on "Evolving era of life sciences"	Dept. of Microbiology and Biotechnology Shivchhatrapati Aurangabad	3 rd March 2023
7	Isolation Of Urease Producing Bacteria From Caves Soil Sample.	Kate Savita et al.	One Day National e-Conference on "Evolving era of life sciences"	Dept. of Microbiology and Biotechnology Shivchhatrapati Aurangabad	3 rd March 2023

8	Biotransformation of Reactive Orange 16 by <i>Micrococcus glutamicus</i> NCIM 2168	Madhuri Sahasrabudhe, Savita Kate, Aditi Bhattacharya	One Day National e-Conference on “Evolving era of life sciences”	Dept. of Microbiology and Biotechnology Shivchhatrapati Aurangabad	3 rd March 2023
9	Exploitation of Biocatalyst in collagen rich solid waste Treatment	Savita Kate	One Day National e-Conference on “Research methodology in Science & Technology and Management Science”	Department of Biotechnology , Science faculty and management Science in collaboration with IQAC	27 June 2023

• **Details of papers presented in seminars / conferences:**

Sr. No.	Title of paper	Authors	Name of conference	Organizer	Date
1	Screening of keratinase producers from leather	Savita Kate and A. Pethe	6 th International Congress of Environmental research	Dr. Rafiq Zakaria Campus, Maulana Azad College of Arts, Science and Commerce, Aurangabad.	19 & 20 th December, 2013
2	Study of efficiency of keratinase production of <i>Pseudomonas</i> sp. isolated from leather sample	Savita Kate and A. Pethe	DBT Sponsored National Conference on Modern Analytical Techniques in Microbiology-MATM	Department of Microbiology, Deccan Education Society's Fergusson College, Pune.	17 & 18 th January, 2014
3	production of collagenase by <i>Bacillus megaterium</i> KM369985 Strain SAK isolated from leather sample	Savita Kate and A. Pethe	UGC Sponsored National Conference on Recent trends and future prospects in Multidisciplinary approaches in Microbiology-RTFPM	Rajaram College Kolhapur	4 th & 5 th Oct. 2014
4	An efficient collagenase production by <i>Penicillium</i> sp. isolated from leather sample	Savita Kate and A. Pethe	one day International Conference on Modern Aspects in Microbial Science	Shri Shivaji College of Arts, Commerce and science, Akola	3 rd January, 2015
5	Optimization of Metallo-Collagenase Production by <i>Arthrobacter creatinolyticus</i> KP015744 zzzx28 Isolated From Deteriorated Leather Sample	Savita Kate and A. Pethe	National Conference - Emerging Trans Disciplinary Approaches in Bioscience,	Deogiri College , Aurangabad	Dec. 2019

- **Details of minor research projects completed / ongoing:**

Sr. No.	Title of project	Duration amount sanctioned	Awarding agency
1	Ecofriendly poultry waste management by keratinase"	1 year 2021-22 21,000 Completed	MSP's Mandal's, Shivchhatrapati College, Aurangabad