



Name of faculty: Dr. Sangeeta Ahiwale

Professor & Head

Department of Microbiology

Email: sangeeta.ahiwale2@gmail.com

Mobile: 9860356226

➤ **Contact Details**

Address for Correspondence: Rayat Shikshan Sanstha's
Mahatma Phule Mahavidyalaya, Pimpri, Pune-411017

➤ **Educational Qualification**

Academics Qualifications					
Examinations	Name of the Board/ University	Year of Passing	Percentage of marks obtained	Division/ Class/Grade	Subject
High School	Maharashtra board	1990	78.85	First class with distinction	General
Intermediate	Maharashtra board	1992	60.00	First Class	Science
B.Sc.	Pune University	1995	58.19	Higher Second Class	Microbiology
M.Sc.	Pune University	1997	60.00		Microbiology
SET	Maharashtra State	2002	-----	-----	Life Sciences

Research Degree (s)			
Ph.D.	Waterborne bacteriophages against enteric pathogens and their potential for	17 Aug. 2008 rd Sept.2013	SPPU

	bioremediation of pathogen infested water bodies.		
--	---	--	--

- **Department** : **MICROBIOLOGY**
- **Designation** : **Professor**
- **Teaching Experience** : **UG - 23 years**
: **PG - 6 years**
- **Area of Specialization** : **General Microbiology**
- **Research Experience** : **19 years**
- **Research Area** : **Bacteriophage Technology**
- **No of Publications** : **17**
- **h-index (if applicable)** : **08**

Sr. No	Title of Paper	Name of Journal /Conference/ Proceedings	Volume & Page No.	Year of Publication	ISSN	Impact Factor
1	<i>In-Vitro</i> management of hospital <i>Pseudomonas aeruginosa</i> biofilm using indigenous T7-like lytic phage.	Curr.Microbiol.	62:335-340	2011	0343-8651	2.188
2	Optimization of Indole 3 aceticacid (IAA) production by <i>Acetobacterdiazotrophicus</i> L1 isolated from Sugarcane.	Int J Env. Sci.	2(1) 295-302	2011	0976-4402	0.65
3.	BVPaP-3, a T7-Like Lytic Phage of <i>Pseudomonas</i>	Curr.Microbiol.	64:305-311	2012		2.188

	<i>aeruginosa</i> : Its Isolation and Characterisation					
4	Isolation and characterization of a rare phage of <i>Salmonella enteric</i> Serovar Paratyphi B.	Canadian J Microbiol	59(5):318-323	2013	0008-4166	2.419
5	Liquid Based Formulations of Bacteriophages for the Management of Waterborne Bacterial Pathogens.	Journal of Experimental Biology	51:1038-1045	2013	0022-0949	3.312
6.	Pomegranate borne fungicidal lactic acid bacteria and their biodiversity.	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci	82:413-419	2012	03698211	1.404
7.	Stability and infectivity of bacteriophages under different environmental conditions.	International Journal of Research in Biosciences	5:55-71	2016	2319-2844	0.765
8.	A bacteriophage mediated nanoparticles synthesis and their antibiofilm activity.	Indian Journal of Microbiology	57(2): 188-194	2017	0255-0877	2.461
9.	Taxonomic study of Bacteriophages specific of Eubacterial members of the aquatic environment.	Trajectory	23: 114-122	2014		--
10.	Characterization of lytic bacteriophages of <i>Pseudomonas</i> sp., an etiology of the bacterial blight of pomegranate.	Microbiological research	228, 126300	2019	0944-5013	5.145
11.	Characterization of lytic bacteriophage isolated against	International Journal of Bacteriophage Research	42-50	2021	2583-3545	----

	multidrug-resistant <i>Klebsiella pneumoniae</i> .					
12.	Isolation and study of citrus canker causing bacterial pathogen.	International Journal of Life Sciences	9(2), 175-180	2020	2320-7817	5.63
13	Isolation and Characterization of potent lytic phage specific strain of <i>Bacillus</i> (2022).	International Journal of Bacteriophage Research		2022	2583-3545	--
14.	Effects of environmental factors on the stability and infectivity of Bacteriophages	NCALS (Proceeding)	114-120	2014		---

➤ **Poster / Paper Presentation / Participation in Conference / Seminar / Workshop**

Sr No	Conference / Seminar / Workshop	Level	Title of Event	Paper Presentation/ Participation	Place	Date
1.	Conference	Virtual International	2 nd International Conference on Bacteriophage Research	Paper presentation Bacteriophage Growth Kinetics: An important criterion for identification and classification of phages	Online	22-24 July 2021
2	Conference	International	International Conference on Virology and Microbiology	Paper presentation Evaluation of efficacy of Saclac globule formulation of indigenous bacteriophages against multidrug resistant bacterial pathogens in water microcosm.	Online	30 July 2020
3	Conference	International	International conference on Bacteriophage research	Paper presentation Liquid based formulations of	VIT, Vellore, Tmilnadu	12-13 Dec. 2019

			and Antimicrobial resistance	bacteriophages for the management of bacterial flora of oral cavity		
4	Conference	International	International Conference on Bacteriophages in River Ganga	Paper presentation Saclac globule phage formulation for an effective killing of Salmonella in water microcosm.	Institute of Medical Sciences, Banaras Hindu University ,Varanasi.	22-23 August 2017
5	Conference	International	4 th World Congress on Targeting Infectious diseases: Phage Therapy	Paper presentation Isolation and Identification of waterborne, lytic bacteriophage with potential for bioremediation of multidrug resistant <i>Klebsiella pneumoniae</i> .	Paris, France	2-3 June 2016
6	Conference	International	IX th Convection of the Biotech Research Society, India	Paper presentation Liquid based formulations of potent lytic phages for killing of pathogens in water microcosm	Punjabi University , Patiyala, Panjab.	2012
7	Conference	International	New Horizons in Biotechnology (NHBT 2011).	Paper presentation Ecofriendly phage formulations for the management of bacterial pathogens in the environment	CSIR, Trivendram, Kerala	21-24 Nov. 2011
8	Conference	International	Microorganisms in Environmental management and Biotechnology	Paper presentation Bacteriophages: A novel approach for disinfection of water bodies	Barkatulla University , Bhopal, Madhya Pradesh	1-3 July 2011
9	Conference	International	Frontiers in Biological Sciences	Paper presentation A bacteriophage mediated degradation	BRD School of Bioscienc	27-28 Feb. 2009

				of Biofilm: A feasibility study.	es, Sardar Patel University , Gujrat	
10	Conference	National	Phage- A boon in Disguise	Paper presentation Biofilm susceptibility to bacteriophage attack in the detection of faecally contaminated water	Abeda Inamdar College Senior college, Pune	17-18 Jan 2020
11	Conference	National	Recent trends in Chemical and Biological Sciences	Paper presentation Bacteriophage Therapy	Waghare College Saswad	6-8 Feb. 2018
12	Conference	National	Microbiology from Education to Industry	Paper presentation Development and shelf life determination of liquid based formulation of bacteriophage	Netaji Subhashchandra College, Nanded, Maharashtra	23-24 Aug. 2008
13	Conference	National	International conference on advances in Biotechnology and Bioinformatics	Paper presentation Bacteriophage for better tomorrow.	Dr. D.Y.Patil Biotechnology and Bioinformatics institute	Feb.2012
14	Conference	National	Microbiology Horizons in Biomedical Sciences	Paper presentation Bacteriophages as an Ideal disinfectant	Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai	27-28 Sept. 2013
15	Conference	National	Emerging Trends in physical, chemical and Life Sciences	Paper presentation Isolation and Characterization of <i>Vibrio cholerae</i> specific phages	Waghare College, Saswad	16-18 Feb.2015
16	Conference	National	National Conference on Frontiers in Life Sciences	Paper presentation Bacteriophages active against biofilm of <i>Pseudomonas</i>	Shardabai Pawar Mahila Mahavidy	11-13 Jan2011

				<i>aeruginosa.</i>	alaya, Baramati	
17	Conference	National	New Insights of Microbial Biotechnology	Paper presentation Exploring bacteriophages as disinfectant for safe drinking water	Dr. P.G.Ghograey college, Dhule, Maharashtra	8-9 Feb.2013

➤ **Book/ Chapter in Book Publication :**

Sr. No	Title	Publisher	ISBN	Name of Co-author (if any)	Whether you are main author
1	Bacteriophage based technology for disinfection of various water systems.	Microorganisms in environment management. Springer publication, Germany, 2012	978-94-007-2229-3	Pranali Deore, Balasaheb Kapadnis	Main Author
2	Bacteriophages: Interaction, Diversity and Application	NOVA Scientific Publishers, Inc USA, 2022	978-1-68507-860-7	Nusrat Shaikh	Main Author
3	Environmental and Agricultural Microbiology	Success Publication, Pune, 2017 (Textbook)	978-93-5158-512-1		Main Author

➤ **Grant and Fellowship**

○ **Ongoing/ Completed Research Projects (Minor / Major)**

Sr. No	Title	Year	Amount Sanctioned	Funding Agency	Remark
1	Isolation and Identification of faecal <i>E. coli</i> and enteric pathogens and coliphages from Pavana river water	2002-2004	40,000/-	UGC	Completed
2	Bacteriophage mediated biocontrol of common bacterial pathogens in the environment.	2008-2010	200000/-	BCUD, Pune University	Completed

➤ **Training Courses/ Programmes / TLE Technology Programmes/ FDP Completed :**

Sr. No	Level	Title	Date	Place
1	Orientation Course	UGC sponsored Orientation Programme	22-11-2004 to 18-12-2004	Academic Staff College, University of Pune
2	Refresher Course	Cultural Heritage of India(Microbiology)	01-03-2006 to 21-03-2006	Center for advanced studies in Sanskrit, Pune University
3	Refresher Course	Refresher course in Environmental Sciences	01-03-2013 to 21-03-2013	University of Pune
4	Refresher Course	Refresher course in Environmental Sciences	03-10-2013 to 23-10-2013	Padmashri Vkke Patil College of Arts, Science and Commerce, Pravranagar, Loni
5	FDP	Teaching and Research Process in Science Education	04-04-2016 to 11-04-2016	H.V.Desai College, Pune

➤ **No of Seminars / Workshop Organized :**

Sr. No	Level	Title	Funding Agency	Place	Date
1	State level Workshop	'Conservation of Natural Resources	University of Pune	Mahatma Phule Mahavidyala ya, Pimpri	29 th Jan. 2014
2.	State level Seminar	Significance of Nanobiotechnology	University of Pune	Mahatma Phule Mahavidyala ya, Pimpri	20-21 Sept.2013
3.	State level Seminar	Mathematics for Biologists	University of Pune	Mahatma Phule Mahavidyala ya, Pimpri	15-16 Dec.2009
4.	National level seminar	Intellectual Property Rights and Innovations	UGC	Mahatma Phule Mahavidyala ya, Pimpri	18-19 Dec.. 2019

- **E- Content developed :** Developed educational U- tube videos for UG and PG students.
- **Almost 45 power point presentations are made**

➤ **Contribution on the various university committees: Contributed as an Observer for SET Examination conducted by SPPU.**

➤ **Contribution on the various college committees: Worked as a Chairman and member of various college committees, viz., Research , Environmental Protection Club, Cultural Committee, Staff Academy , Web Site etc.**

➤ **Awards and Honors received:**

Sr. No.	Title of Award/ Honor	Organization with Place	Date
1	Teacher Fellowship Award	SPPU	2010-2012
2	Avishkar State Level Best Research Project Award	Government of Maharashtra (Konkan Krishi Vidyapeeth)	2013
3	Best Research Paper Award	National conference on Recent Advances and Applications of Taxonomy in Life Sciences (Yashwantrao Chavan Institute of Sciences, Satara)	2015
4	Travel Grant Award	World Science Congress on Phage Therapy at Paris, France SPPU	2016
5	Prof. J.V.BHAT Best Research Paper Award	59 th Annual Conference of AMI held at University of Hyderabad	2018
6	Martin Elizabeth Kutter Young Scientist Award-2021	International conference on bacteriophage research (BACTERIOPHAGE RESEARCH SOCIETY AND PHAGE THERAPY)	2021

➤ **Worked as Guest Lecturer / Resource Person**

1. Delivered a Guest lecture for 25 Ph.D. students at National chemical Laboratory (NCL), Pashan, Pune (2012).
2. Invited Resource person for the Workshop on “Bacteriophage –bacteria eating viruses” at HPT Arts and RYK Science College, Nasik
3. Invited resource person for Hands on Training Workshop on “Growth Kinetics of Bacteriophages” in Abasaheb Garware College, Pune (April 2018)
4. Invited resource person at AIIMS, New Delhi for two day workshop on “Bacteriophages” (28-29 sept.2018)

5. Invited as resource person at Bio-Era Life Sciences Pvt. Ltd to give invited talk on “Bacteriophage Technology” (28 th Dec.2018).
6. Invited as Resource person at Pad. Dr. D.Y.Patil College of Arts,Science and Commerce for a workshop on “Bacteriophage Growth Kinetics” (09-02-2019)
7. Invited as Resource person at Abeda Inamdar College for National level Conference on “Bacteriophage – Boon or Disguise” `(17and18 th Jan.2020)
8. Invited as resource person for online training on Bacteriophage Technology-Detection of MS2 phage in water and waste water, propagation, growth kinetics and preservation of bacteriophages by Ashwamedh Engineers and Consultant Nashik(25 th Nov. 2021).
9. Invited as Resource person at Karnataka University, Dharwad for the international conference on “Third Conference on Bacteriophage Research and Antimicrobial Resistance (ICBRAR 2022)” organized by Society for Bacteriophage Research and Karnataka University, Dharwad `(26 and 27 Nov. 2022).

Other Contributions:

Consultancy in Bacteriophage Technology: Consultancy Service regarding **Bacteriophage Isolation, Characterization and its Growth Kinetics** is provided to academic institutions in Maharashtra including University of Pune.

(Prof. Dr. Sangeeta Sanjay Ahiwale)