

**SRI SANKARA ARTS AND SCIENCE COLLEGE (Autonomous)
ENATHUR, KANCHIPURAM
PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY
STAFF PROFILE**



1.	Name of the Staff	Dr.V.SUGANTHI M.Sc., D.MLT., Ph.D., FLS
2.	Designation	Assistant Professor
3.	Date of Joining	02/12/2023
4.	Mobile Number	9360728306
5.	E-Mail ID	sindu.guna@gmail.com vsuganthi@sankaracollege.edu.in
6.	Nationality	Indian
7.	Academic Qualification	M.Sc., D.MLT., Ph.D., FLS (London)
8.	Field of Specialization	Microbial Biotechnology
9.	Ph.D Thesis Title	PRODUCTION, OPTIMISATION AND NANOENCAPSULATION OF PEDIOCIN FROM <i>PEDIOCOCCUS PENTOSACEUS</i> VITMS7 AND ITS ANTILISTERIAL ACTIVITY
	Awarding University, Year of Award.	VIT University, 2016

10. Work Experience (in chronological order):

S.No.	Name of the Institution	Designation	Period
1	VIT University	Research Associate	2011-2015
2.	Sri Sankara arts and science college, Enathur, Kanchipuram	Assistant professor	2016- 2020
3.	Global College of Arts and Science –women, Ranipet	HOD and Assistant Professor	2021-2022
4.	Sri Sankara arts and science college, Enathur, Kanchipuram	Assistant professor	2023-Till Date

11. Other Academic and Administrative Responsibilities:

S.No.	Name of the Institution/Committee	Position	Period
1.	Sri Sankara Arts and Science College/Attendance committee	Member	2016- 18
2.	Sri Sankara Arts and Science College/ Board of studies	Member	2017- Till date
3.	Sri Sankara Arts and Science College/ NPTEL	College Co Ordinator and Local Chapter Co Ordinator	2017-2020
4.	Sri Sankara Arts and Science College/ Community Radio	Department Co Ordinator	2018-2020
5.	Global College of Arts and Science –women, Ranipet	TN EDII Co Ordinator Thiruvalluvar University	2021-2022
6.	Global College of Arts and Science –women, Ranipet	NSS- Unit 1 Co Ordinator	2021-2022
7.	Sri Sankara Arts and Science College Enathur Kanchipuram	College Co Ordinator and Local Chapter Co Ordinator	2023-Till Date
8.	Sri Sankara Arts and Science College Enathur Kanchipuram	Forum Co Ordinator	2023-Till Date
9.	Sri Sankara Arts and Science College Enathur Kanchipuram	Attendance Co Ordinator	2023-Till Date

12. Publications:Paper and Book Publications

H- index 9 i10- index 8 Citation – 454 (Total impact factor – 14.2)

PAPER PUBLICATION:

S.No.	Title	Journal	Pages
1.	."Lantibiotic nisin: Natural preservative from <i>Lactococcus lactis</i> "	<i>International Research Journal of Pharmacy</i>	13-19.
2.	." Optimization studies for enhanced bacteriocin production by <i>Pediococcus pentosaceus</i> KC692718 using response surface methodology"	<i>Journal of Food Science and Technology</i>	3773–3783.
3	Molecular characterization of potential bacteriocin producing Lactic Acid Bacteria and its efficacy against food borne pathogens	<i>J of pure and appl microbial.</i>	vol.8 (4), pp.1-10
4	Production and cross linking studies of Dextran from <i>Leuconostoc mesenteroides</i> MTCC10508 for biopolymer preparation"	<i>Research J. Pharm. and Tech</i>	7(1), 2014 8-11
5	Process Optimization for Enhanced Production of α -amylase by submerged (SmF) and Solid State Fermentation (SSF) Using <i>Bacillus pumilus</i> VITMDS2	<i>Research Journal of Pharmaceutical, Biological and Chemical Sciences</i>	5(2), 2014.
6	"Removal of Heavy Metals from Leather Industry Effluent Using <i>Saccharomyces sp</i> In a Packed Bed Reactor"	<i>Research Journal of Engineering and Technology.</i>	4(2) 2013
7	." Fermentative production of extracellular pigment from <i>Streptomyces coelicolor</i> MSIS1".	<i>Research Journal of Biotechnology,</i>	8(4)2013.
8	Screening for Staphylokinase producing <i>Staphylococcus sp</i> from bovine milk sample	<i>IJPPS</i>	5(2) 2013.
9	"Fermentative production of ergosterol using <i>Saccharomyces cerevisiae</i> "	<i>Journal of Applied Sciences Research</i>	9(2) 2013.

10	Determination of human T-cell leukemia virus-1 among pregnant women”	<i>Elixir Virus Research</i>	2012, 42, 6345-6348.
11	“Bioremediation of Endosulfan contaminated soil”	<i>Research Journal of Chemistry and Environment</i>	Environment 2013, 17(11), 93-101.
12	Enhanced production of nattokinase from UV mutated <i>Bacillus</i> sp.”	<i>Bangladesh Journal of Pharmacology</i>	8(2) 2013.
13	Studies on heavy metal removal efficiency and Antibacterial activity of chitosan prepared from shrimp shell waste”.	<i>3Biotech</i>	(2014) 4:1 167–175
14	Evaluating the Biological Applications of <i>Myristica fragrans</i> Seeds for Bactericidal and Cytotoxic Effects.	<i>Indian Journal of Public Health Research & Development.</i>	2019, Vol. 10 (7), 1267-1272.
15	Synthesis and Characterization of Graphene Quantum Dots from Turmeric Powder (<i>Berberis aristata</i>) and Its Biomedical Applications.	<i>Indian Journal of Public Health Research & Development.</i>	2019 10(7):1239-1243
16	TiO ₂ -SO ₄ ²⁻ -Catalyzed Synthesis and Antimicrobial Activity/Molecular Docking Studies of β -Indolyl Nitroalkanes	<i>Combinatorial Chemistry & High Throughput Screening</i>	2016/5/1, 94, 290-297
17	Encapsulation of purified pediocin of <i>Pediococcus pentosaceus</i> into liposome based nanovesicles and its antilisterial effect	<i>Protein and Peptide Letters</i>	2021/10/1 28, 10 1115-1126

I. BOOK PUBLICATIONS

S.No.	Title	Publisher	ISBN number	Publication period
1.	Nisin Based Lantibiotic Engineering- A novel approach on biopreservation	Lambert Academic Publishing	978-3-659-25473-4	September 2012
2.	Purification of growth factor expressed as fusion protein in <i>E. coli</i>	Lambert Academic Publishing	978-3-8443-8167-2	May 2011

II. NCBI SEQUENCE SUBMISSION

NCBI SEQUENCE SUBMISSION

- *Enterococcus mundtii* MVS1 (16S rRNA partial) JX123479
- *Lactobacillus plantarum* VITES04 (16S rRNA partial) KC538945
- *Lactobacillus plantarum* VITES07 (16S rRNA partial) HF571129
- *Leuconostoc mesenteroides* VITMS1 (16S rRNA partial) KC539103
- *Leuconostoc mesenteroides* VITMS4 (16S rRNA partial) HF586418
- *Pediococcus pentosaceus* VITMS7 (16S rRNA partial) KC692718
- *Bacillus pumilus* VITMDS02 (16S rRNA partial) KC991039
- *Glutamicibacter creatinolyticus* (16S rRNA partial) KY814694
- *Pseudomonas aeruginosa* SSI (16S rRNA partial) MN907538

AWARD ACHIEVEMENT

S.No.	Name of the Award	Venue	Period
1.	Research award	VIT University	2012-2014
2.	Department Glitz Award	Sri Sankara arts and science college, Enathur, Kanchipuram	2017
3.	Credential Teacher Award	Sri Sankara arts and science college, Enathur, Kanchipuram	2016
4.	Grant of approval of qualification to hold the post of Assistant Professor in Department of Biotechnology prescribed from UGC and Madras University	Sri Sankara arts and science college, Enathur, Kanchipuram	2018
5.	Received Certificate of appreciation for the Implementation of MOOC courses as the faculty co Ordinator.	Department of Biotechnology, at Sri Sankara Arts and Science, Kanchipuram, Tamil Nadu.	2018-2019
6	Received International Award Fellowship of Linnean London Society.	Linnean society of London	202

13. Membership in Professional Bodies:

S.No.	Name of the Membership	Venue	Period
1.	Association of Microbiologist of India-AMI International Association of Computer Science and Information Technology-IACSIT International Society for Environmental and Information Science-ISEIS Asia-Pacific Chemical, Biological & Environmental Engineering Society-APCBEEES International Society for Applied Life Sciences (ISALS) Fellow Member In Linnenn Society of London (FLS)		
2.	NPTEL Local chapter Co Ordinator	IIT MADRAS and Sri Sankara arts and science college, Enathur, Kanchipuram	2018- till now

14. Seminars Conferences organized/Participation:

S.No.	Program Attended	Place	Organized/ Participated	Period
1.	National seminar on Microbial World	Auxilium College	Presented paper	October 2007
2.	International Conference on Science, Engineering and Technology	VIT University	Presented paper	April 2011
3.	National Conference on Career and Research trends in Food Processing at	IICPT, Thanjavur	Presented paper	Jun 2011
4.	International Symposium on Recent Trends in Processing & Safety of Specialty and Operational Foods	DFRL, Mysore	Presented poster	Nov 2011
5.	National Symposium on New Horizons in Biotechnology and Bio nanomedicine	Periyar University, Salem	Presented poster	Sep 2012

6.	National Conference on Recent Trends and future prospects of Microbiology and Biotechnology	Shri Jagdishprasad Jhabarmal Tibrewala University, Vidyanagari, Chudela, Jhunjhunu, Rajasthan, India	Presented paper	March 2014
7.	International Conference on Emerging Trends in Bio-Science	M.M.E.S women's Arts and Science College	Presented poster	Feb 27 & 28 th -2018.
8.	National Conference on "Toward Achieving Excellence in Higher Education"- Internal Quality Assurance Cell- IQAC National Conference	Sri Sankara arts and science college, Enathur, Kanchipuram	Participated	Dec 15, 2017
9.	Bio entrepreneurship and Funding Opportunities	Department of Biotechnology Sri Sankara Arts and Science College, Kanchipuram	member of organizing committee	8 Sept2017
10.	International Conference Recent Advances in Bioresource Technology" -(RABT 2017)	Thiruvalluvar University, Vellore.	Participated	2017
11.	National conference on "Application of computational biology in Comics- ACBO 18	Sri Sankara Arts and Science College, Enathur, Kanchipuram	member of organizing committee	October, 2108
12.	National Conference on frontiers in cancer research – FCR' 2020	Arcot Sri Mahalakshmi womens's College, Villapakam 632 521, Ranipet.	Presented Paper	5 th Feb 2020
13.	Second International conference on "Frontiers in Analytical and Clinical Techniques" (INFACT-2019) concept by INBIOTICS	Department of Nanotechnology, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari, Dist.T.N	Presented paper (received certificate of appreciation)	Jan 24 and 25, 2019
14.	Implementation of MOOC courses – Faculty Co Ordinator	Department of Biotechnology, Sri Sankara Arts and Science, Kanchipuram, Tamil Nadu.	Organizing Secretary- (received certificate of appreciation)	2018, sep
15.	One day workshop on "The Art of Writing Winnable Projects Proposals"	Department of Biotechnology, Sri Sankara Arts and Science, Kanchipuram, Tamil Nadu.	Organizing Secretary-	July 12 th , 2019.
16.	International Conference on Recent advances in Bio resource technology RABT -2025	Department of Biotechnology Thiruvalluvar university	Presented paper	13 and 14 July 2025

15. Participated as Resource Person:

S.No.	Program	Venue	Period
1.	Subject expert – National Conference on "Clinical Applications of Biomaterial SANMICROFEST 2018	Sri Sankara arts and science college, Enathur, Kanchipuram	22 Feb , 2018
2.	Guest Speaker on Orientation programme on Microbiology, Department of Microbiology,	Auxilium College, Vellore	10 August , 2024
3.	Guest Speaker - NSS Nutrition week Programme	Sri Sankara arts and science college, Enathur, Kanchipuram	06 September, 2025
4.	Speaker- Sexual Harassment and Drug Awareness, Department of Microbiology	Sri Sankara arts and science college, Enathur, Kanchipuram	12 September, 2025

16. Workshop & Training Programmes:

S.No	Programme	Venue	Period
1.	Faculty Development Workshop on “Digital Learning Resources’ organized by Internal Quality Assurance Cell	Sri Sankara Arts and Science College, Enathur, Kanchipuram	Feb 2 nd , 2018
2.	Participated in the NPTEL workshop	IIT MADRAS at SSN College of Engineering	Dec 9, 2017
3.	Workshop on “Design and Innovation”	MaDeIT Innovation Foundation, IITDM Kanchipuram, Chennai, India	29 th ,July 2018
4.	Organized a National Science Day Science and Technology For specially Abled Person by Department of biotechnology	organizing secretary at Sri Sankara Arts and Science College	Feb, 28, 2017
5.	Faculty development programme on “MATLAB	VIT University, Vellore	Aug 2013
6.	Participated in the lecture workshop on “Microbes, Minerals and Environment	VIT University, Vellore	January 2013
7.	Participated in the Faculty development programme on “An introduction to Statistical Analysis System”	VIT University, Vellore	Nov 2012
8.	Participated in the Faculty development programme on “Functional Nanomaterials-Synthesis and Characterization	SASTRA University	Dec 2011
9.	Training programme on “Recent Research Developments in Biotechnology	VIT University, Vellore	Oct 2011
10.	Lecture workshop entitled “Products from Natural Resources: Prospecting and Utilization”	VIT University, Vellore	July 2011
11.	Faculty development programme on “Biostatistics and Mathematics for Biologist”	VIT University, Vellore	July 2011
12.	National Workshop on “HACCP and Food Safety in Food Industries”	IICPT, Thanjavur	June 2011
13.	National Level Orientation Program for Designing Doctoral Research	AMET University, Chennai	Feb 2011
14.	one day workshop on “Design and Innovation	IIT DM Kanchipuram, Chennai, India	2018
15.	One day workshop on “NPTEL WORKSHOP”	IIT Madras at IC and SR	January 19, 2019.
16.	One day workshop on “Molecular Modelling”	Noorul Islam centre for Higher education, Kumaracoil, Kanyakumari, Dist.T.N.	April 9, 2019
17.	Participated in the “Awareness Programme on Intellectual property Rights “conducted during World Intellectual property Day.	Sri Sankara Arts and Science College, Enathur, Kanchipuram	April 26, 2019
18.	Organizing Secretary in the programme on Creation of Scientific Awareness for Farmers, Self-Help groups and students”.	catalyzed and supported Tamilnadu State Council for Science and Technology, Chennai and PG & Research Department of Biotechnology, Sri Sankara Arts and Science, Kanchipuram, Tamil Nadu	13 to15 February, 2019
19.	Organized a workshop on “The Art of Writing Winnable Projects Proposals” as the organizing secretary	Department of Biotechnology at Sri Sankara Arts and Science, Kanchipuram, Tamil Nadu	September 2018-2019
20.	Attended the Research Methodology and Hands –on-workshop on JAMOVI 2	Statistical Point, Birbhum, West Bengal	23-29 March 2025

17. PROJECT COMPLETED

S.No.	Name of the Projects	Period	Grant Received/Status
1.	TNSCST Student Project	2018	10,000/Completed
2.	M.Sc., Project	2024-2025	7 students

Research Interest

Enzymology
 Bioprocess and Fermentation Technology
 Chromatographic Bioseparation Processes
 Nanotechnology
 Statistics

Teaching Class

Social preventive Medicine
 Essential in microbial techniques
 Microbial Physiology and Metabolism
 Aquaculture
 Fundamental Microbiology and Microbial Diversity
 Immunology and Microbial genetics
 Food processing technology
 Microbial physiology and Metabolism
 Clinical diagnostic Microbiology