

**SRI SANKARA ARTS & SCIENCE COLLEGE**  
**ENATHUR, KANCHIPURAM**  
**STAFF PROFILE**  
**DEPARTMENT OF BIOTECHNOLOGY**



1.	<b>Name of the Staff</b>	<b>Dr. S.Malathi</b>
2.	<b>Designation</b>	Assistant Professor
3.	<b>Date of Joining</b>	15:03:2022
4.	<b>Mobile Number</b>	9841301608
5.	<b>Email ID</b>	<a href="mailto:smalathibt@sankaracollege.in">smalathibt@sankaracollege.in</a> <a href="mailto:maluselvaraj16@gmail.com">maluselvaraj16@gmail.com</a>
6.	<b>Nationality</b>	Indian
7.	<b>Academic Qualification</b>	M.Sc., M.Phil., Ph.D., SET
8.	<b>Field of Specialization</b>	Plant Pathology, Nanobiotechnology
9.	<b>Ph.D Thesis Title</b>	Management of early blight disease of <i>Solanum lycopersicum</i> L. using biosynthesized silver nanoparticles and its impact on plant defense mechanism
10.	<b>Awarding University, Year of Award</b>	Madras University October 2019

### 11. Work Experience (in chronological order):

S.No.	Name of the Institution	Designation	Period
1.	Centre for Advanced Studies in Botany, University of Madras	Project Fellow	Sep 2011- Aug 2014
2.	Central Integrated Pest Management, Ministry of Agriculture and Farmers' welfare, Hyderabad	Technical Officer	Nov 2019 – to Sep 2021
3.	Sri Sankara Arts and Science College (Autonomous), Kanchipuram	Assistant Professor	March 2022 to Till date

### 12. Other Academic and Administrative Responsibilities:

S.No	Name of the Institution/ Committee	Position	Period
1.	Board of Studies, Sri Sankara Arts and Science College, Enathur, Kanchipuram	Internal Member	December 2022 to Till date

### 13. Publications

S.No	Authors	Article Title	Journal Name	Year of publication & page details	Impact Factor
1.	<b>Malathi S,</b> Manikandan D, Nishanthi R, Jagan EG, Mohammed Riyaz SU, Palani P, Gandara JS	Silver Nanoparticles, Synthesized using <i>Hyptis suaveolens</i> (L) Poit and their Antifungal Activity against <i>Candida</i> spp.	Chemistry Select	In press (2022)	2.3
2.	Manikandan D, <b>Malathi S,</b> Karthick KB, Mohammed Riyaz SU, Mika S	Eco friendly synthesis and characterization of zinc oxide nanoparticles from <i>Aegle marmelos</i> and its cytotoxicity effects on MCF-7 cell lines.	Nanofabrication	2021. 6:44-51.	-
3.	Nishanthi R, <b>Malathi S,</b> Johnpaul S, Palani P	Green synthesis and characterization of bio-inspired silver, gold and platinum nanoparticles and evaluation of their synergistic antibacterial activity after combining with different classes of antibiotics.	Materials Science and Engineering C.	2019. 96: 693-707.	7.3
4.	<b>Malathi S</b> and	Green synthesis and	IEEE- 16th	2016,	-

	Palani P	characterization of silver nanoparticles and its impact on the germination of <i>Solanum lycopersicum</i> L.	International Conference on Nanotechnology (IEEE-Nano).	343-346.	
5.	<b>Malathi S</b> , Prabhu P, Nishanthi R, Babu RS, Narayanan SS, Palani P	Highly Potential Antifungal activity of Quantum-Sized Silver Nanoparticles against <i>Candida albicans</i>	Applied Biochemistry and Biotechnology	<b>2014</b> , 173(1):55-66	3.09
6.	Priadharsini K, Jenefar S, <b>Malathi S</b> , Kalaichelvan PT, Muthumary J	Molecular and Morphological Identification of <i>Colletotrichum gloeosporioides</i> Penz. on Cannon ball tree	Journal of Biosciences Research	<b>2010</b> . 1(2): 65-69.	-

### Book Chapters:

S. No	Authors	Chapter	Book	Year of publication & page details	Publisher
1.	<b>Malathi S</b> , Nishanthi R, Jagan EG	The effect of chitosan nanoparticles on immune responses in plants	Role of Chitosan and Chitosan - Based Nanomaterials in Plant Sciences	<b>2022</b> ; pp.185: 196	Elsevier Inc.
2.	Nishanthi R, <b>Malathi S</b> , Jagan EG, Manikandan D, Mohammed Riyaz SU	Intermediate Host of CoV and SARS-CoV-2	An Epidemiological Update on COVID -19	<b>2022</b> ; pp. 41: 48.	Bentham Science Publisher
3.	<b>Malathi S</b> , Mohanapriya D, Palani P	Optimisation of protease enzyme production by the Halo-tolerant <i>Vibrio alginolyticus</i> isolated from marine samples	Microbial Diversity and Biotechnology in Food Safety	<b>2014</b> pp.451: 462	Springer edition

### 14. Awards

S.No	Award	Venue	Organization	Year
1.	Travel grant - Young Scientist Award	Tamil Nadu State Council of Science and Technology, Chennai	Tamil Nadu State Council of Science and Technology	2016-2017
2.	Foreign Grant	University of Madras	International Centre	2016-2017

	Award		for University of Madras (ICOM)	
3.	Prof. R. Rengasamy Meritorious scholarship	Centre for Advanced Studies in Botany, University of Madras	University of Madras	2014-2015
4.	State level Eligibility Test (SET) (Life Science)	-	Govt. of Tamil Nadu	2012

### 15. Seminars Conferences participated

S. No	Name of the Program	Place	Organized/ Participated	Period
1.	4th International Conference (Virtual) NANOFORAGRI 2020 Application of Nanotechnology for Sustainable, Productive and Safer Agriculture and Food System	TERI-Deakin Nanobiotechnology Centre, Gurugram	Participated	5 <sup>th</sup> and 6 <sup>th</sup> November 2020
2.	National seminar on Recent Trends in Nanobiotechnology	Anna University, Chennai	Presented poster on "Green synthesis of silver nanoparticles and their antimicrobial properties against drug resistant strains of <i>Candida albicans</i> "	19 <sup>th</sup> – 20 <sup>th</sup> September 2013
3.	International conference on Mycology and Plant pathology: Biotechnological approaches (ICMPB- 2012)	Banaras Hindu University, Varanasi, India	Oral presentation on "Studies on isolation, screening of protease producing halo-tolerant bacteria from marine sources and characterization of protease produced by <i>Vibrio alginolyticus</i> "	27 <sup>th</sup> – 29 <sup>th</sup> February, 2012
4.	National Virology Conference on "Viruses: Surveillance, Identification and Management"	Vidya Pratishthan's School of Biotechnology Baramathi, Pune	Oral presentation on "Isolation, Screening and Identification of Potential Bacteriophages as biocontrol agents against <i>Xanthomonas citri</i> "	23 <sup>rd</sup> to 25 <sup>th</sup> January, 2012

5.	2nd Indian Youth Science Congress	SRM University, Chennai.	Presented poster on “Extracellular Lipase production from <i>Lasiodiplodia theobromae</i> by solid state fermentation using Coconut oil cake”	26 <sup>th</sup> – 28 <sup>th</sup> June, 2011
6.	Recent Advances in Mycological Research	Centre for Advanced Studies in Botany, University of Madras, Chennai	Participated	8 <sup>th</sup> – 9 <sup>th</sup> February 2011
7.	National Conference on Advances in Plant pathology	Centre for Advanced Studies in Botany, University of Madras, Chennai	Participated	11 <sup>th</sup> – 12 <sup>th</sup> March 2010
8.	National seminar on Diagnosis of Infectious Diseases by Molecular Biological Methods”	Bharathidasan University, Tiruchirappalli	Participated	29 <sup>th</sup> November 2010
9.	National Symposium on “New Vistas for Mycology in meeting Global Challenges and 35th Annual Meeting of the Mycological Society of India”	Centre for Advanced Studies in Botany, University of Madras	Poster presentation on “Coelomycetes – As promising tools for the production of the potential anticancer drug”	29 <sup>th</sup> – 30 <sup>th</sup> January, 2009
10.	National Seminar on “Fungal Biodiversity & Bioprospecting in the Age of Global Warming” and 36th annual meeting of Mycological Society of India	Goa University, Goa	Presented poster on “Isolation, Identification and Molecular analysis by 18S rRNA sequence of Taxol producing fungus <i>Pestalotiopsis guepinii</i> (Desm.,)	29 <sup>th</sup> – 30 <sup>th</sup> October, 2009.
11.	National Seminar on “Trends in Microbial Research”	Centre for Environmental Studies, Anna University, Chennai	Participated	27 <sup>th</sup> February 2009
12.	National level conference on “Current trends in Algal Biodiversity and Biotechnology”	CAS in Botany, University of Madras, Guindy Campus, Chennai	Participated	7 <sup>th</sup> – 8 <sup>th</sup> Feb’08

#### 16. Participated as Resource Person

S.No	Name of the Program	Place	Organized/ Participated	Period
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1.	16 <sup>th</sup> International Conference on nanotechnology conducted by IEEE NANO 2016	Tohoko University, Sendai, Japan	Contributed lecture on Green synthesis and characterization of silver nanoparticles and its impact on the germination of <i>Solanum lycopersicum</i> L.	23 <sup>rd</sup> – 25 <sup>th</sup> August, 2016
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### 17. Workshop & Training Programmes (Organized/participated)

S.No	Name of the workshop/training	Organized by	Duration	Organized/ Participated
1.	National Science academies' lecture workshop on "Biotechnology – Principles and practice"	Sri Sankara Arts and Science College (Autonomous), Kanchipuram	10 <sup>th</sup> -11 <sup>th</sup> August 2022	Organized
2.	One week faculty development programme on "Research prospects and progress in biological science (RPPB - 2022)"	SRM Institute of Science and Technology	4 <sup>th</sup> – 7 <sup>th</sup> July 2022	Participated
3.	Virtual 22nd INDO-US Flow Cytometry Workshop on "Flow Cytometry and its Applications in Biological Research and Clinical Diagnostics"	Trust for Education and Training in Cytometry (TETC)	22 <sup>nd</sup> – 28 <sup>th</sup> February 2021	Participated
4.	Step by step guide to write a review paper and publish it	Research Graduate	13 <sup>th</sup> March 2021	Participated
5.	Computational tools for analysis of biological system	Dr.B.R. Ambedkar National Institute of Technology, Jalandhar	2 <sup>nd</sup> -6 <sup>th</sup> September 2020	Participated
6.	Human resource development programme	Central Integrated Pest Management Centre, Hyderabad	Dec 2019	Participated
7.	Hands on workshop on Advanced Training on Proteomics	Cancer Institute, Chennai	1 <sup>st</sup> to 3 <sup>rd</sup> August 2017	Participated
8.	Author workshop	Springer & Anna University, Chennai	17 <sup>th</sup> March 2015	Participated
9.	Workshop on Chromatographic	Dept of Analytical	25 <sup>th</sup> Feb 2013	Participated

	techniques	Chemistry, University of Madras, Chennai		
10.	Workshop on research Methodology and Biostatistics	Dr.M.G.R University, Chennai	30 <sup>th</sup> Sep – 4 <sup>th</sup> Oct 2011	Participated
11.	Animal handling and animal ethics	Institutional animal ethical Committee	1 <sup>st</sup> Dec – 5 <sup>th</sup> Dec 2011	Participated
12.	Hands on training for the diagnosis of infectious diseases by Advanced Molecular biological methods using <i>Leptospirosis</i> as a model system	Dept of Microbiology, Bharathidasan University, Trichy	29 <sup>th</sup> Nov – 13 <sup>th</sup> Dec 2010	Participated
13.	Isolation, Identification and Application of Bioconstituents	Veltech High-Tec Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	25 <sup>th</sup> – 27 <sup>th</sup> Nov 2009	Participated

### 18. GenBank Submission

1. **Selvaraj. M** and Perumal.P (2018) **MF990775.1** *Alternaria* sp. Isolate SMPP03 internal transcribed spacer 1, Partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence.
2. **Malathi.S**, Mohammed Riyaz.S.U., GokulRaj.K., Muthumary.J and Kalaichelvan.P.T. (2009), **GQ981642** *Pestalotiopsis guepinii* strain SMJM001 18S ribosomal RNA, gene, partial sequence.
3. **Malathi,S.**, Mohanapriya,D. and Palani,P (2012) **JQ780446**. *Vibrio alginolyticus* strain PC 24 16S ribosomal RNA gene, partial sequence.
4. **alathi.S**, Devasena.D, Mohammed Riyaz.S.U, Kathiravan.K and Palani.P (2012) **JX889616** Tomato leaf curl New Delhi virus strain BJ coat protein (CP) gene partial cds.

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### 19. Any other Details

S. No	Course	Name of the course	Organized by	Period
1.	Certificate course	<b>Food preservation</b>	University Grants Commission X plan	2005-2006

2.	Training course	<b>Fruit and vegetables preservation and Nutrition</b>	Department of women & child development, Food and Nutrition board, Government of India.	12/09/2005 to 16/09/2005
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**Google Scholar id:** <https://scholar.google.com/citations?user=JIpkPd4AAAAJ&hl=en>

**ORCID:** <https://orcid.org/my-orcid?orcid=0000-0003-0101-0385>

**Scopus id:** <https://www.scopus.com/authid/detail.uri?authorId=55390321400>

**Vidwan id:** <https://vidwan.inflibnet.ac.in/profile/319314>