

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



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

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|----|--|--|--|----------------------------|------|
| 4. | Malathi S and Palani P | Green synthesis and characterization of silver nanoparticles and its impact on the germination of <i>Solanum lycopersicum</i> L. | IEEE- 16th International Conference on Nanotechnology (IEEE-Nano). | 2016 , 343-346. | - |
| 5. | Malathi S , 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 | 2014 , 173(1):55-66 | 3.09 |
| 6. | Priadharsini K, Jenefar S, Malathi S , Kalaichelvan PT, Muthumary J | Molecular and Morphological Identification of <i>Colletotrichum gloeosporioides</i> Penz. on Cannon ball tree | Journal of Biosciences Research | 2010 . 1(2): 65-69. | - |

Book Chapters:

| S. No | Authors | Chapter | Book | Year of publication & page details | Publisher |
|-------|---|--|---|------------------------------------|---------------------------|
| 1. | Malathi S , Nishanthi R, Jagan EG | The effect of chitosan nanoparticles on immune responses in plants | Role of Chitosan and Chitosan - Based Nanomaterials in Plant Sciences | 2022 ; pp.185: 196 | Elsevier Inc. |
| 2. | Nishanthi R, Malathi S , Jagan EG, Manikandan D, Mohammed Riyaz SU | Intermediate Host of CoV and SARS-CoV-2 | An Epidemiological Update on COVID -19 | 2022 ; pp. 41: 48. | Bentham Science Publisher |
| 3. | Malathi S , 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 | 2014 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 |

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| 2. | Foreign Grant Award | University of Madras | International Centre for University of Madras (ICOM) | 2016-2017 |
| 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 th and 6 th 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 th – 20 th 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 th – 29 th 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 rd to 25 th January, 2012 |

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| 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 th – 28 th June, 2011 |
| 6. | Recent Advances in Mycological Research | Centre for Advanced Studies in Botany, University of Madras, Chennai | Participated | 8 th – 9 th February 2011 |
| 7. | National Conference on Advances in Plant pathology | Centre for Advanced Studies in Botany, University of Madras, Chennai | Participated | 11 th – 12 th March 2010 |
| 8. | National seminar on Diagnosis of Infectious Diseases by Molecular Biological Methods” | Bharathidasan University, Tiruchirappalli | Participated | 29 th 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 th – 30 th 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 th – 30 th October, 2009. |
| 11. | National Seminar on “Trends in Microbial Research” | Centre for Environmental Studies, Anna University, Chennai | Participated | 27 th 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 th – 8 th Feb’08 |

16. Participated as Resource Person

| S.No | Name of the Program | Place | Organized/ Participated | Period |
|------|---|----------------------------------|---|--|
| 1. | 16 th 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 rd – 25 th August, 2016 |

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 th -11 th 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 th – 7 th 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 nd – 28 th February 2021 | Participated |
| 4. | Step by step guide to write a review paper and publish it | Research Graduate | 13 th March 2021 | Participated |
| 5. | Computational tools for analysis of biological system | Dr.B.R. Ambedkar National Institute of Technology, Jalandhar | 2 nd -6 th 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 st to 3 rd August 2017 | Participated |

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| 8. | Author workshop | Springer & Anna University, Chennai | 17 th March 2015 | Participated |
| 9. | Workshop on Chromatographic techniques | Dept of Analytical Chemistry, University of Madras, Chennai | 25 th Feb 2013 | Participated |
| 10. | Workshop on research Methodology and Biostatistics | Dr.M.G.R University, Chennai | 30 th Sep – 4 th Oct 2011 | Participated |
| 11. | Animal handling and animal ethics | Institutional animal ethical Committee | 1 st Dec – 5 th 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 th Nov – 13 th Dec 2010 | Participated |
| 13. | Isolation, Identification and Application of Bioconstituents | Veltech High-Tec Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai | 25 th – 27 th 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. **Malathi.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.

19. Any other Details

| S. No | Course | Name of the course | Organized by | Period |
|-------|--------------------|--|---|--------------------------|
| 1. | Certificate course | Food preservation | University Grants Commission X plan | 2005-2006 |
| 2. | Training course | Fruit and vegetables preservation and Nutrition | Department of women & child development, Food and Nutrition board, Government of India. | 12/09/2005 to 16/09/2005 |

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>