

Name: Dr.S.Priyadharshini

Designation: Assistant Professor

Department: Food Science and Nutrition

Date of Joining: 17-06-2019

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Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
M.Sc	Food Science & Nutrition	IGNOU, New Delhi	2025
M.Sc	Psychology	Madras University, Chennai	2022
Ph.D.	Microbiology specialization in Food Science & Technology	Pondicherry University, Pondicherry	2019
M.Sc.	Microbial Gene Technology	Madurai Kamaraj University, Madurai	2013
B.Sc.	Bio-chemistry	The American College, Madurai	2011

ICAR-NET	Agricultural Microbiology	May 2017
NET	Home Science	December 2019

Specialization in Teaching: Microbiology, Genetics, Food Safety and Enzymology

Specialization in Research: Metagenomics, Food Microbiology and Nutrigenomics

Research Interests: Food Microbiology, Food Packaging & Product Development.

Other Work Experience

Designation	Institution / Company	Year - From (month/year) To (month/year)
Project Fellow	DBT – Junior Research Fellow at Pondicherry University Pondicherry	2013-2016 3 Years

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
HoD - PG	June 2024- May 2025
HoD - UG	June 2022 to May 2024
SLP – Project Associate	February 2022 to Till Date
Deputy Co-Ordinator -Vigyan Sarvatra Pujyate	February 2022
Assistant Professor	June 2019 to Till Date
Co-ordinator –Industrial Biotechnology	August 2020 to Till Date
NAAC Committee Member (Criterion –III)	March 2020 to Till Date
Ex officio Chief minister breakfast scheme	May 2023- till date
PhD Research Supervisor Madurai Kamaraj University	September 2024 onwards

Membership in Professional Bodies:

- Life time member in AFSTI
- Lifetime Member in Indian Association of Applied Microbiology
- Tamil Nadu Science Forum [Life member]
- Athletic Committee member, The American College.
- Hostel Board Member, The American College.

Sponsored Projects:

Title	Project Code	Amount Awarded	Status of the project Completed /Ongoing
Extraction of Melanin from <i>Pseudomonads</i> spp with potential for antimicrobial activity against <i>Klebsiella pneumoniae</i> and cosmetics application	BS-109	7500/-	Completed – 2022
Anticance effect of Sour Sop (<i>Annona muricata</i>) seeds, pulp, peels, pulp extract on Hela cell line	BS-0945	7500/-	Completed- 2023
Revealing the combined efficacy of anethole and piperine extract on hela cell line	BS-1319	7500/-	Completed- 2024

Other Activities / Academic Credentials:

1. Appointed as an Expert examiner for Scrutinizing for the UG and PG courses of Department of Home Science for April 2025 Semester examination at Sri Meenakshi Government Arts College for Women.
2. Subject Expert for Board of Studies Meeting for B.Sc Food and Dairy Technology in the Department of Food and Dairy Technology, February 2025 at Mannar Thirumalai Naicker College, Madurai-625004
3. Appointed as co-ordinator to set Question Papers for M.Sc Food Science & Nutrition programme for the End Semester Examinations – April-2025, Bishop Heber College, Tiruchirappalli.
4. Appointed as the question paper setter at SFR College, Sivakasi for May 2025 EOS.
5. Appointed as the question paper setter in Dr.NPJ Arts & Science College, Coimbatore.
6. Appointed as the question paper setter in Sri Meenakshi Government Arts College for Women, Madurai.

7. Appointed as question paper setter at Nehru Memorial College, Trichy.
8. Subject Expert for Board of Studies Meeting for B.Sc Food and Dairy Technology in the Department of Food and Dairy Technology, May 2024 at Mannar Thirumalai Naicker College, Madurai-625004
9. Subject Expert for Board of Studies Meeting for B.Sc Food and Dairy Technology in the Department of Food and Dairy Technology, May 2021 at Mannar Thirumalai Naicker College, Madurai-625004
10. Appointed as question paper setter at E.G.S.Pillay Arts & Science College, Nagapattinam.
11. Appointed as question paper setter at Jamal Mohamed College, Trichy
12. External Examiner - V.V.Vanniaperumal College for Women in the Department of Nutrition and Dietetics.
13. External Examiner – The Madura College in the Department of Biotechnology.
14. External Examiner - Sri Meenakshi Government Arts College for Women.
15. External Examiner – The Standard fireworks college, Sivakasi
16. External Examiner- Madurai Kamaraj University
17. Reviewer

1.	Agricultural Research Communication Centre Journals.
2.	Journal of Emerging Technologies and Innovative Research (JETIR)
3.	Journal of Pure and Applied Microbiology (JPAM)
4.	Journal of Applied Life Sciences International
5.	Annual Research & Review in Biology
6.	Asian Journal of Environment & Ecology
7.	Journal of Scientific Research and Reports
8.	International Journal of Plant & Soil Sciences
9.	South Asian Journal of Research in Microbiology
10.	Journal of Pharmaceutical Research International
11.	European Journal of Nutrition and Food Safety

Publications:

Cumulative impact factor	40.12
Citations	749 (*Based on all citation sources)

H index	10 (*Based on all
i 10 index	citation sources)10

SI No	Authors	Publication	Journal	Impact Factor
1.	Priyadharshini, S., Kiran, G. S., Sajayan,A., Ravindran, A., Priyadharshini, G. B., Ramesh, U., ... & Selvin, J. (2020).	Dietary administration of gelatinisedpolyhydroxybutyrate to <i>Penaeus vannamei</i> improved growth performance and enhanced immune response against <i>Vibrio parahaemolyticus</i> .	<i>Aquaculture</i> , 517, 734773.	3.591
2.	Kiran, G. S., Priyadharsini, S., Sajayan, A., Ravindran, A., & Selvin, J.	An antibiotic agent pyrrolo [1, 2-a] pyrazine-1, 4-dione, hexahydro isolated from a marine bacteria <i>Bacillus tequilensis</i> MSI45 effectively controls multi-drug resistant <i>Staphylococcus aureus</i> .	2018, <i>RSC Advances</i> , 8(32), 17837-17846.	2.936
3.	G. Seghal Kiran, S Priyadharshini, Alan Dobson, Steve Jackson and Joseph Selvin	Synthesis of Nm-PHB (nanomelanin-polyhydroxy butyrate) nanocomposite film and its protective effect against biofilm-forming multi drug resistant <i>Staphylococcus Aureus</i>	2017, <i>Nature Scientific reports</i> ,7(1), 9167	4.259
4.	Seghal Kiran. Sabarathinam, Sethu Priyadharshini, Joseph Selvin	Development of Anti biofilm Biosurfactants from Marine bacteria against Shrimp <i>Vibrio</i> pathogens	(2017). <i>Avances enNutrición Acuicola</i> .	1.2
5.	G.Seghal Kiran, S.Priyadharsini, , Priyadharsini, G.B, Poulose, N.,and Selvin	Production of Lipopeptide Biosurfactant by a Marine <i>Nesterenkonia</i> sp. and Its Application in Food Industry,	(2016), <i>Frontiers in microbiology</i> , 8, 1138,	4.76

6.	Sajyan, A., G.Seghal Kiran, Priyadharsini , S., Poullose, N., Selvin, J.	Revealing the ability of novel polysaccharide bioflocculant in bioremediation of heavy metals sensed in a <i>Vibrio</i> bioluminescence reporter assay	Environmental Pollution	4.839
7.	S Priyadharshini , G. Seghal Kiran, ,Alan Dobson, Elumalai Gnanamani, and Joseph Selvin	Degradation intermediates of poly-hydroxy butyrate inhibits phenotypic expression of virulence factors and biofilm formation in luminescent <i>Vibrio</i> sp. PUGSK8	2016 <i>NPJ Biofilms and Microbiomes</i> , inpress	4.128
8.	G. Seghal Kiran, S Priyadharshini , K Anitha, E Gnanamani, J Selvin	Characterization of an exopolysaccharide from probiont <i>Enterobacter faecalis</i> MSI12 and its effect on the disruption of <i>Candida albicans</i> biofilm	2015 <i>RSC Advances</i> 5 (88), 71573-71585	2.936
9.	G. Seghal Kiran, Anuj Lipton, S Priyadharshini , K Anitha, Lucia Suárez, Mariadhas Arasu, Ki Choi, Joseph Selvin, Naif Al-Dhabi	Antiadhesive activity of poly-hydroxy butyrate biopolymer from a marine <i>Brevibacterium casei</i> MSI04 against shrimp pathogenic vibrios	2014 <i>Microbial Cell Factories</i> , 13:114.	4.25
10.	G. Seghal Kiran, Nishanth, L. A., Priyadharshini , S., Anitha, K., & Selvin, J*	Effect of Fe nanoparticle on growth and glycolipid biosurfactant production under solid state culture by marine <i>Nocardiopsis</i> sp. MSA13A	2014 <i>BMC biotechnology</i> , 14(1), 48	2.17

11.	S. Priyadharshini, Zibia Kasturi Gratia.A, Ajay Kumar. S, Preasanna Devi. K,	Production And Characterization Of Exopolysaccharide Extracted From Bacteria Isolated In Homemade And Packed Idli Batter.	International Journal For Research in Applied Science &Engineering Technology (iJRASET) June 2021, Volume 9, Issue 6.	
12.	S.Priyadharshini, Zibia Kasturi Gratia, Savariroyan Stephen Rajkumar Inbanathan, S.Ragavarshini, Hassan Fouad and Mohamed H. Mahmoud	Isolation and characterization of a novel crystalline pigment as a natural colorant.	Science of Advanced materials, Vol.16,pp 1- 8,2024	1.067

Papers in referred Journals

- KAMALRAJ, R., NANDHIVARMAN, M., POYYAMOLI, G., GOWTHAMRAJ, G., & **PRIYADHARSHINI, S.** (2017). EFFECT OF INORGANIC AND ORGANIC AMENDMENTS ON THE PROXIMATE COMPOSITION OF OKRA [*Abelmoschus esculentus* (L) Moench]. Journal of Advances in Food Science & Technology, 4(2), 67-72.
- **S. Priyadharshini,** Arya Sajayan & Amrudha Ravindran (2018) Journal of Emerging Technologies and Innovative Research (ISSN-2349-5162),5,9.
- **S.Priyadharshini,** M. Sri Aravind Lal, A. Zibia Kasturi Gratia, M. Davamani Christoher PRODUCTION AND CHARACTERIZATION OF YELLOW PIGMENT FROM POMEGRANATE AND ITS APPLICATION. Journal of Emerging Technologies and Innovative Research (JETIR) May 2021, Volume 8, Issue 5.

Chapters Published in Books

Bioactive Marine Natural Products: Insights into Marine microbes, Seaweeds, and Marine Sponges as Potential Source of Drug Delivery. Marine Microorganisms, (pp17-30), CRC Press.

Enzymes as a Tool in Food Analysis and Food borne Pathogen Detection - Novel Food Grade Enzymes pp 265–316, Springer Nature.

Papers Presented in the Conference

Organizing Institutes	Conference	Paper/Poster Topic	Date
Pondicherry University	National conference on wonders of the small exploring the microbial world	Production and characterization of PHB from marine sponge associated bacterium	April 3&4 2014
Madurai Kamaraj University	National conference on recent trends in modern biology	Production and Characterization of Polyhydroxyalkanoates from Metagenome of Marine Sponges	February 27-28,2016
Society of Biological Chemists-CFTRI	Innovation in Biological research on health & diseases	Polyhydroxy butyrate and their intermediates inhibits biofilm formation and expression of virulence factors in <i>Vibrio</i> isolated from infected shrimp	November 21-24,2016
Periyar University	International conference on Food, Energy and water microbiology	Lipopeptide bioemulsifiers as next generation anti infectives against pathogenic biofilm forming <i>Bacillus cereus</i>	December 21-23,2016
Thiruvalluvar University	International conference on recent advances in bioresource technology	Protective mechanism of Polyhydroxybutyrate against <i>Vibrio</i> pathogens in shrimp aquaculture	February 15-17,2017

AFSTI	National Conference on Food regulation in Indian current status and way forward	Participation	March 27-27,2017
Pondicherry University	A National Conference on recent trends in Microbiome research	Efficacy of Polyhydroxy butyrate in shrimp aquaculture	March 20&21 2019
Pondicherry University	Indo- Mexican conference on Shrimp aquaculture	PHB as feed for Shrimp	Aug 9-10,2019
Kalasalingam University	7 th Annual Conference on Microbiology in the New Millennium	Revealing the efficacy of Polyhydroxybutyrates produced by marine sponge associated bacteria to control Vibriosis in shrimp aquaculture	November 28-29,2019
The American College	International Conference on Novel Paradigms in Microbiology for Sustainable Future	Isolation, Identification and Characterization of Novel Pigment Producing Bacteria <i>Micrococcus yunnanensis</i> From Carrot	Nov 11-12, 2022
The American College	National conference on Emerging trends in Biological Sciences 23 on organised by the Department of Biochemistry, The American College, Madurai.		19 September 2023

Workshops

1. Participated in the National conference on “Enhancing the quality of Academics and research in HEIs” organized by the Internal quality Assurance cell, The American College, Madurai on 28 January, 2025.
2. Participated in the International workshop series on “AIDE-Artificial Intelligence” conducted by the Asia Pacific University UNESCO Chair, Malaysia organized by the The American College and CSI Jeyaraj Annapackiam College of Nursing & Allied Sciences from 23.11.2024 to 26.11.2024.
3. Participated in the one week national level Faculty Development Program (online) on “Pedagogical Innovations and Strategies in Higher Education” from 27.12.2023 to 03.01.2024 jointly organized by A.C.T Academy, Tamil Nadu and SKR & SKR 9 Govt.College for women, Kadapa, Andhra Pradesh.
4. Participated in the one day National conference on “Emerging Trends in Biological Sciences23” held on 19 September organized by the Department of Biochemistry, The American College, Madurai.
5. Participated in Faculty Orientation Programme organized by the Internal Quality Assurance Cell (IQAC), The American College, Madurai on September, 2022.
6. Participated in the Two Days International Virtual Workshop on “Innovative Resources and IPR in Research” held on 08th -09th October 2021 organized by the PG & Research Department of Mathematics, The American College (Autonomous), Madurai, Tamil Nadu, India.
7. Participated in the Faculty workshop Science through Inquiry & Research (STIR-21) sponsored by the United Board for Christian Higher Education in Asia conducted through virtual mode during 24, 25 & 26 June. 2021 and completed the training in implementation of Research & Inquiry Based Pedagogy.
8. Participated in the International webinar on “Promoting Ikigai to Arise & Shine” organized by The Ladies Club of The American College held on 29th July, 2021.
9. Participated in the webinar on “Lead the life in Style” organized by Women’s forum, The American College held on 1st February, 2021.
10. Participated 2 day’s Workshop on Research writing and anti-plagiarism tools conducted by A.C.T Academy, Tamil Nadu on 30.8.2023 & 31.8.2023
11. Participated in Workshop on basics in applied Bioinformatics for Clinical genomics
12. Participated in Training Programme on Laboratory Animal Management and Handling for

Research Scholars at TANUVAS, Chennai on 01.02.2017-03.02.2017

13. Participated in Workshop on Microbiome IAPEN INDIA GI NUTRITION CONGRESS-2022 , Pondicherry University

14. Participated in International Seminar cum Workshop on patent filing system and examination in context of byproduct development, The American College, held on 20 March 2024

Resource Person

1. Delivered invited lecture at Indo- Mexican Conference on Developments in Aquaculture, Nutrition & Disease Management held on 9th & 10th August 2019.
2. Served as Resource person and delivered talk on Postpartum depression in the Mental Health Webinar Series 2020 organized by Department of Psychology, The American College, Madurai in association with Madras school of Social Work, Chennai, MS Chellamuthu Institute of Mental Health, Red pond Educational & psychological research Centre and Psycho oncological association Turkey
3. Served as a Resource person for a session on Food and Mental health, Yellow Pond Training division.
4. Delivered a Guest lecture on the topics “Research, Innovation and Extension at VPMM arts & Science College, Krishnankoil.
5. Acted as a Chief guest for the Annual day at Yoga Siva School, Villapuram, Madurai.
6. Acted as a Chief guest for Womens day at Gesto College, Madurai.

GENBANK – NCBI PUBLICATIONS

S. No	Accession number	Date
1	OK061187.1- <i>Bacillus altitudinis</i>	13- Sep – 2021
2	OK157432.1 - <i>Pseudomonas putida</i>	16- Sep – 2021
3	MW980175.1 - <i>Micrococcus yunnanensis</i>	19- Apr – 2021
4	KR024645 <i>Vibrio campelli</i>	28-Mar-2015
5	KR559728.2 <i>Enterobacter faecalis</i>	17- Apr -2015
6	KB1825475 – <i>Bacillus subtilis</i>	19 – May – 2015
7	KR1825490 – <i>Aspergillus fumigatus</i>	19 – May - 2015
8	KU859400.1- <i>Bacillus cereus</i>	21 – Apr-2016
9	MG515247.1 - <i>Bacillus tequilensis</i>	12 -May 2018
10	KU510053.1- <i>Brevibacterium casei</i>	19 – Jan - 2016

Awards / Fellowships

- 1.**Best Paper award** received in International Conference Recent advances in bioresource Technology, Thiruvalluvar University 15-17 February, 2017.
- 2.**Best Paper award** received in International Conference Pondicherry University 20-21 March, 2019.
- 3.**Young Scientist Award** received from Indian Association of Applied Microbiology with a citation. November 28-29,2019
- 4.**Young Scientist Award** received from Science Father, 2nd International Research Awards on Science, Health and Engineering, 18-19 April 2020.
- 5.**Kumaraswami Kamaraj Award 2021** Certificate of commitment, dedication and contribution in the field of Higher Education. Red pond Educational and Psychological Research Centre, Madurai, India. 15 August 2021.
6. **Young Researcher in Science Award 2025**, by VV Entertainment, Chennai.

Other Details

1. Deputy Coordinator Contribution Towards Vigyan Sarvatra Pujiyate Festival of SCoPE for All at The American College, Madurai on 22.02.2022 to 28.02.2022
2. Co-Convenor for Two days international conference on Innovative Approaches in Life Sciences- ICIALS23
3. Organizing Secretary for DBT – Sponsored International Conference On “Nutri-omics in Biotechnological Innovations -ICNBI24” organized by Department of Food Science & Nutrition, The American College, Madurai.
4. Organizing Secretary 3rd International Conference on Advancing Food Science : Global trends and future perspective – AFS25
5. Coordinator Millet Food Festival 2023 orgainzed by TamilNadu Government Food supply and consumer safety Madurai district on 08.12.2023.