

Name: Dr.S.Priyadharshini

Designation: Head – UG & Asst 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
Ph.D.	Microbiology specialization in Food Science & Technology	Pondicherry University	2019
M.Sc.	Microbial Gene Technology	Madurai Kamaraj University	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: Microbiology & Marine Biotechnology

Other Work Experience

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

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

Positions held / currently holding	Year - From (month/year) To month/year)
HoD - UG	June 2022 to Till Date
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

Membership in Professional Bodies:

- Life time member in AFSTI
- Lifetime Member in Indian Association of Applied Microbiology
- Tamil Nadu Science Forum [Life member]

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

Other Activities / Academic Credentials:

1. Subject Expert for Board of Studies Meeting for B.Sc Food and Dairy Technology in the Department of Food and Dairy Technology, at Mannar Thirumalai Naicker College, Madurai-625004
2. External Examiner - V.V.Vanniaperumal College for Women in the Department of Nutrition and Dietetics.
3. External Examiner – The Madura College in the Department of Biotechnology.
4. External Examiner – Jamal Mohamed College
5. External Examiner – E.G.S.Pillay Arts & Science College
6. External Examiner - Sri Meenakshi Government Arts College for Women.
7. Reviewer

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

Publications:

Cumulative impact factor	35.424
Citations	500 (*Based on all citation sources)
H index i 10 index	14 (*Based on all citation sources) 12

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 gelatinised polyhydroxybutyrate 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 en Nutrición 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. , Poulouse, N., Selvin, J.	Revealing the ability of novel polysaccharide bioflocculant in bioremediation of heavy metals sensed in a Vibrio 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 Vibrio 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 Enterobacter faecalis MSI12 and its effect on the disruption of Candida albicans 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 Brevibacterium casei 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 Nocardiosis 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, Saranya Devi. K.U, Pakiya Lakshmi.M, Sarvesh Swaroop Shankar.S, Davamani Christoher.M	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.	

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 Polyhydroxyalkanotes 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

Workshops

1. Workshop on basics in applied Bioinformatics for Clinical genomics
2. Training Programme on Laboratory Animal Management and Handling for Research Scholars at TANUVAS, Chennai on 01.02.2017-03.02.2017
3. Workshop on Microbiome IAPEN INDIA GI NUTRITION CONGRESS- 2022 , Pondicherry University

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.

GENBANK – NCBI PUBLICATIONS

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