




Bharathiar University

State University | "A⁺⁺" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr K PREETHI Assistant Professor Department of Microbial - Biotechnology Bharathiar University Coimbatore, 641046 Tamil Nadu E-mail: preethi@buc.edu.in Phone: 9487543030 Office Number: 0422 2428653	
Research Area <ul style="list-style-type: none">• Waste Valorization• Biopolymers• Endophytic Bacteria and Fungal Metabolites• Nanoparticle synthesis from microbial sources	Courses Teaching <ul style="list-style-type: none">• Fundamentals of Microbiology• Immunology and Immunotechniques• Food Microbiology• Agricultural Microbiology• Environmental Biotechnology• Genetics and rDNA Technology• Bacteriology and Mycology
Research Experience: 14	Teaching Experience: 20
Research Credentials (as on August 2025 – Source: Google scholar) H-index: 22 Citations: 33 i10-index: 1450	
Patents : Granted: 2	
Publications Publication Database: 1 International Journals: 78 Books/Chapters: 9 National Journals: 3	
Career At Bharathiar University 1. Designation : Assistant Professor Period : March 2011 - Till Date Other Institutes 1. Designation : Assistant Professor Institution Name : Kongu Arts & Science College, Erode Period : June 2007 - February 2011 2. Designation : Lecturer Institution Name : Maharaja college for women, Perundurai Period : June 2004 - May 2007 3. Designation : Lecturer Institution Name : Maharaja college for women, Perundurai Period : June 2002 - May 2003	
Education Ph. D. Subject : Biotechnology Institution : Bharathiar University, Coimbatore Affiliated University : Bharathiar University Year of Award : November 2011	



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Dr K PREETHI , Assistant Professor , Department of Microbial - Biotechnology

PG Diploma

Subject : Bioinformatics
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award : May 2007

M. Phil.

Subject : Biotechnology
Institution : Bharadidasasn University
Affiliated University : Bharadidasasn University
Year of Award : May 2005

M. Sc.

Subject : Environmental Science
Institution : PSG College, Coimbatore, Tamil Nadu
Affiliated University : Bharathiar University
Year of Award : April 2000

B. Sc.

Subject : Microbial Biotechnology
Institution : Maharaja College for Women, Erode, Tamil Nadu
Affiliated University : Bharathidasan University
Year of Award : April 1998

Projects

Consultancy Level

Ongoing - completed - 1

Research Guidance

Completed

Ph.D. - 12 M.Phil. - 7

National Level Responsibilities

Ongoing - completed - 2

IQAC Coordinator-department

Period :Jan 2021 to Till date

Nature of Responsibility :data collection and filing

Visits

1. Paper Presentation in International conference (2017-09-07 - 2017-09-01)

Programs organized

1. Bioprospecting for today's world (2014-01-08 - 2014-01-08)
2. Bio revolution trends for scientific harmony (2015-12-18 - 2015-12-18)
3. Bionanoparticle synthesis and characterization (2017-03-01 - 2017-03-03)
4. Cognizance of microbial consortium (2018-09-18 - 2018-09-19)

Patents

Granted - 2

1. Purification process for Pheomelanin from the culture supernatant of Streptomyces spinoverrucosus 01-2022 387540 K.Preethi, P.Satheesh
2. Process for making natural immunogenic melanin-typhoid polysaccharide nanoparticles to be used as vaccine 01-2023 419807 Dr.K.Preethi, P.Satheesh

Selected Publications



1. Biogenic Synthesis, Purification, and Functional Elucidation of Pheomelanin from *Streptomyces spinoverrucosus*: A Promising Platform for Next-Generation Typhoid Vaccine Development.

Preparative Biochemistry and Biotechnology (August 2025)
Satheesh Periyasamy, Koushika Saravanan, Preethi Kathirvel.

2. Fabrication of ZnO nanoparticles reinforced PHB/PEG nanocomposite film for active packaging of Indian gooseberry and bread.

Polymer Bulletin (July 2025)
Saravanan, K., & Kathirvel, P.

3. Optimization and Partial Characterization of Biopigment Production from Endophytic *Mesobacillus subterraneus* SGL and Its Antimicrobial Activity

Indian Journal of Microbiology (June 2025)
Kandasamy, G. D., Ravichandran, P., & Kathirvel, P.

4. Valorization of pineapple (*Ananas comosus*) peel waste for levan production: Assessment of biological activities

International Journal of Biological Macromolecules. (January 2025)
Kumaresan Priyanka, Jilnasree Naduvile Purayil, Kathirvel Preethi.

5. Fish waste valorization through production of biodiesel and biopolymers for sustainable development: A mini review.

Bioresource Technology Reports (January 2025)
Mridul Umesh, Vinay Kumar, Kumaresan Priyanka, Preethi Kathirvel, Sreehari Suresh, Adhithya Sankar Santhosh

1. Exploring the Medicinal Potential of *Muntingia calabura* Linn. Fruit: A Comprehensive Overview

Pomotherapeutic Insights on Wild Edible Fruits. (March 2025)
Kathirvel, P., Sundar Kumar, V.

2. Fruit peel waste: A potential substrate for production of value-added products.

Microbial Niche Nexus Sustaining Environmental Biological Wastewater and Water- Energy- Environment Nexus. (January 2025)
Preethi Kathirvel, Koushika S, Mridul Umesh.