




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)

Publications

International Journals - 78

78. 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.



77. 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.

76. 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.

75. 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.

74. 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

73. Screening of Multi-metal Tolerant Plant Growth Promoting Bacteria (PGPB) Stutzerimonas stutzeri WA4 and its assistance on Phytoextraction of heavy metals (Cu, Ag and Pb)

International Journal of Phytoremediation. (November 2024)
Koushika Saravanan, Kavya Vellingiri, and Preethi Kathirvel

72. Screening of Multi-metal Tolerant Plant Growth Promoting Bacteria (PGPB) Stutzerimonas stutzeri WA4 and its assistance on Phytoextraction of heavy metals (Cu, Ag and Pb)

International Journal of Phytoremediation. (November 2024)
Koushika Saravanan, Kavya Vellingiri, and Preethi Kathirvel.

71. Phytoassisted synthesis of biogenic ZnO nanoparticles using Annona squamosa L. bark extract: characterization and its application studies

Green Chemistry Letters and Reviews (September 2024)
Koushika Saravanan, Vanaraj Sekar, Mohammed Ali Alshehri, Chellasamy Panneerselvam & Preethi Kathirvel

70. Biodegradation of Keratin Waste by Bacillus velezensis HFS_F2 through Optimized Keratinase Production Medium.

Current Microbiology (May 2024)
Saravanan, K., Vijayaveeran, A., & Kathirvel, P.

69. Biodegradation of Keratin Waste by Bacillus velezensis HFS_F2 through Optimized Keratinase Production Medium.

Current Microbiology (April 2024)
Saravanan, K., Vijayaveeran, A., & Kathirvel, P

68. Bioconversion of Tannery Hide into Biofertilizer using Bacillus safensis as Plant Growth Promoting Bacteria and its Efficacy for Plant Growth Study.

Iranian Journal of Science. (November 2023)
Saranya Nachimuthu, Preethi Kathirvel

67. Construction of 3-amino-9-ethylcarbazole scaffold for multifunctional applications: Chemosensor for copper (II) ions along with antibacterial, antioxidant and anti-inflammatory activity

Results in Chemistry. (September 2023)
G. Sathiyaraj, A. Vignesh, K. Priyanka, K.S. Neethu, D. Badhmapriya, K. Preethi, N. Dharmaraj, M.V. Kaveri

66. Optimization parameters for the production of dimer of epicatechin from an endophytic fungus Curvularia australiensis FC2AP using response surface methodology (RSM).

Environmental Research (August 2023)
Vellingiri Manon Mani, Arockiamjeyasundar Parimala Gnana Soundari, Salin K.P., Ramasamy Mohankumar, Kathirvel Preethi, Sami Al Obaid, Sulaiman Ali Alharbi, G.K. Jhanani, Sabarathinam Shanmugam



65. Valorization of custard apple (*Annona squamosa*) waste through polyhydroxybutyrate (PHB) production by *Bacillus megaterium* MAPCS4: optimization, characterization, and biodegradation studies.

Biomass conversion and Biorefinery. (August 2023)
Koushika Saravanan, Yougeshwaran Subramaniam, Preethi Kathirvel.

64. Green synthesis of ZnO-NPs using endophytic fungal extract of *Xylaria arbuscula* from *Blumea axillaris* and its biological applications

Artificial Cells, Nanomedicine and Biotechnology. (July 2023)
Lavanya Nehru, Gayathri Devi Kandasamy, Vanaraj Sekar, Mohammed Ali Alshehri, Chellasamy Paneerselvam, Abdulrahman Alasmari and Preethi Kathirvel.

63. Degradation of tannery hide raw trimming hairs using keratinolytic bacteria isolated from tannery effluent contaminated soil.

Archives of Microbiology (May 2023)
Saranya Nachimuthu, Preethi Kathirvel

62. Utilization of Water Hyacinth (*Eichhornia crassipes*) as a Feasible Substrate for the Production of Single Cell Protein Using *Saccharomyces cerevisiae* (Baker's Yeast).

Waste and Biomass Valorization. (April 2023)
Koushika Saravanan, Madhumathi Rajendran, Preethi Kathirvel

61. Banana peels as a cost-effective substrate for fungal chitosan synthesis: optimisation and characterization.

Environmental Technology. (January 2023)
Kumaresan Priyanka, Mridul Umesh & Kathirvel Preethi

60. Production, characterization and in vitro biological activities of crude pigment from endophytic *Micrococcus luteus* associated with *Avicennia marina*.

Archives of Microbiology. (December 2022)
Gayathri Devi Kandasamy, Preethi Kathirvel

59. Insights into bacterial endophytic diversity and isolation with a focus on their potential applications –A review.

Microbiological Research (November 2022)
Gayathri Devi Kandasamy, Preethi Kathirvel.

58.). Distillery effluent valorization through cost effective production of polyhydroxyalkanoate: optimization and characterization.

Biomass Conversion and Biorefinery (October 2022)
Kumaresan Priyanka, Mridul Umesh, Kathirvel Preethi.

57. Biological Liquefaction and Dehairing of Tannery Hides Using Protease Crude Extract from *Bacillus safensis*.

Biomedical and Biotechnology Research Journal (September 2022)
Saranya Nachimuthu, Lavanya Nehru, Preethi Kathirvel.

56. Microbial Polyhydroxyalkanoates (PHA): A Review on Biosynthesis, Properties, Fermentation Strategies and its Prospective Applications for Sustainable Future.

Journal of Polymers and the Environment (August 2022)
Koushika Saravanan, Mridul Umesh, Preethi Kathirvel.

55. Ultra-sonication-enhanced green synthesis of silver nanoparticles using *Barleria buxifolia* leaf extract and their possible application.

Artificial Cells, Nanomedicine, and Biotechnology. An International Journal. (June 2022)
Vanaraj Sekar, Cindhu Balakrishnan, Preethi Kathirvel, Sathiskumar Swamiappan, Mohammed Ali Alshehri, Samy Sayed & Chellasamy Paneerselvam



54. Biodegradation of polypropylene films by *Bacillus paralicheniformis* and *Lysinibacillus fusiformis* isolated from municipality solid waste contaminated soil

Research Journal of Chemistry and Environment. (July 2021)
Kaviraj Ramesh, Mridul Umesh and Kathirvel Preethi.

53. Endophytic fungal isolation from *Blumea axillaris*: Identification and biological activity of secondary metabolites.

Notulae Scientia Biologicae. (June 2021)
Nehru Lavanya, Vellingiri Manonmani, Nachimuthu Saranya, Rajendran Deepakkumar and Kathirvel Preethi

52. Bioconversion of Feather Composts using *Proteolytic Bacillus mycoides* for their Possible Application as Biofertilizer in Agriculture.

Waste and Biomass Valorization (May 2021)
Goldy Primo Beryl, Basheer Thazeem, Mridul Umesh, Kandasamy Senthilkumar Manickam Naveen Kumar and Kathirvel Preethi

51. Evaluation of Dimer of Epicatechin from an Endophytic Fungus *Curvularia australiensis* FC2AP on Acute Toxicity Levels, Anti-Inflammatory and Anti-Cervical Cancer Activity in Animal Models

Molecules (January 2021)
Vellingiri Manon Mani, Arockiam Jeyasundar Parimala Gnana Soundari, Balamuralikrishnan Balasubramanian, Sungkwon Park, Utthapon Issara, Kathirvel Preethi and Wen-Chao Liu

50. Characterization and Application of Rhamnolipid from *Pseudomonas plecoglossicida* BPO3

Letters in Applied Microbiology (November 2020)
D.Sabarinathan, S.Vanaraj, S.Sathiskumar, S.Poorna Chandrika, G. Sivarasan, S.S.Arumugam, K.Preethi, H.Li,Q. Chen

49. Effective removal of Cationic Methylene blue dye using Nano-Hydroxyapatite Synthesized from fish scale Bio- waste

International Journal of Applied Ceramic Technology. (November 2020)
Sathiskumar Swamiappan, Sivarasan Ganesan, Vanaraj Sekar, Sabarinathan Devaraj, Arulmani Subramanian, Vinoth Kumar Ponnusamy, Preethi Kathirvel.

48. Isolation of Plant Growth-Promoting *Bacillus cereus* from Soil and Its Use as a Microbial Inoculant

Arabian Journal for Science and Engineering (August 2020)
Ann Mary Saebastian, Mridul Umesh, Kumaresan Priyanka & Kathirvel Preethi

47. Biotransformation of bovine tannery fleshing into utilizable product with multifunctionalities

Biocatalysis and Biotransformation (July 2020)
Basheer Thazeem, Mridul Umesh, Vellingiri Manon Mani, Goldy Primo Beryl & Kathirvel Preethi

46. Polyhydroxyalkanoate biosynthesis and characterization from optimized medium utilizing distillery effluent using *Bacillus endophyticus* MTCC 9021: a statistical approach

Biocatalysis and Biotransformation (July 2020)
Kumaresan Priyanka, Mridul Umesh, Basheer Thazeem & Kathirvel Preethi

45. Evaluation of Antioxidant Property in Secondary Metabolites Isolated from *Sargassum wightii* Collected from Kanyakumari Coastal Region, Tamilnadu

International Journal of Life science and Pharma Research (March 2020)
Vellingiri Manon Mani, Selvam Nivethitha, Kathirvel Preethi, A.Parimala Gnana Soundari, V.Subha Priya, P.Deepak and M.P.Ayyappa Das

44. Facile synthesis of Cu and CuO Nanoparticles from copper scrap using plasma Arc discharge method and evaluation of antibacterial activity

Materials Technology: Advanced Performance Materials (March 2020)
S.B.Tharshana, K.Priyanka, K.Preethi and G.Shanmugavelayudham

43. Recent development in polyhydroxyalkanoate (PHA) production –A review

Bioresources Technology (March 2020)
Poorna Chandrika Sabapathy, Sabarinathan Devaraj, Katharina Mexner, Parthiban Anburaj, Preethi Kathirvel, Yuvaraj Ravikumar, Hossain.M.Zabed and Xianghui Qi



42. Enhanced production of Diffusible Eumelanin from Streptomyces rochei isolated from marine sources

Research Journal of Biotechnology (May 2019)
Periyasamy Satheesh and Kathirvel Preethi

41. Bioprocess optimization and production of biosurfactant from an unexpected substrate: Parthenium hysterophorus

Biodegradation (May 2019)
Sabarinathan Devaraj, Poorna chandrika Sabapathy, Lavanya Nehru, Kathirvel Preethi

40. Valorization of Pineapple Peels through Single Cell Protein Production using Saccharomyces cerevisiae NCDC 364

Applied Food Biotechnology (May 2019)
Mridul Umesh, Basheer Thazeem, Kathirvel Preethi

39. Polyhydroxyalkanoate production from statistically optimized media using rice mill effluent as sustainable substrate with an analysis on the biopolymer degradation potential

International Journal of Biological Macromolecules (April 2019)
Poorna chandrika Sabapathy, Sabarinathan Devaraj, Anburajan Parthipan, Preethi Kathirvel

38. Green synthesis of biocompatible nanostructured hydroxyapatite from Cirrhinus mrigala fish scale - A biowaste to biomaterial

Ceramics International (April 2019)
Swamiappan Sathiskumar, Sekar Vanaraj, Sabarinathan Devaraj, Somasundaram Bharath, Ganesan Sivarasan, Subramanian Arulmani, Kathirvel Preethi, Vinothkumar Ponnusamy

37. Aegle marmelos: A novel low cost substrate for the synthesis of polyhydroxyalkanoate by Bacillus aerophilus RSL-7

Biocatalysis and Agricultural Biotechnology (February 2019)
Poorna chandrika Sabapathy, Sabarinathan Devaraj, Anburajan Parthipan, Arivalagan Pugazhendhi, Preethi Kathirvel

36. Evaluation of antibacterial and Antibiofilm activity of Synthesized Zinc-Hydroxyapatite Biocomposites from Labeo rohita fish scale waste

Materials Research Express (June 2018)
Sathiskumar, S., Vanaraj, S., Sabarinathan, D., & Preethi, K

35. Spectroscopic studies, Antioxidant and Anticancer attributes of diffusible eumelanin produced by marine Streptomyces rochei

Current Trends in Biotechnology and Pharmacy (May 2018)
Satheesh Periyasamy, Shalini Devi.S, Preethi Kathirvel

34. Anthelmintic efficacy of glycolipid biosurfactant produced by Pseudomonas plecoglossicida: an insight from mutant and transgenic forms of Caenorhabditis elegans

Biodegradation (March 2018)
Devaraj, S., Amirthalingam, M., Sabapathy, P. C., Govindan, S., Palanisamy, S., & Kathirvel, P

33. Enzymatic and phytochemical analysis of endophytic fungi on Aegle marmelos from Western Ghats of Tamilnadu, India

International Journal of Pharma and Biosciences (March 2018)
Vellingiri Manon Mani, Arockiamjeyasundar Parimala Gnana Soundari, and Kathirvel Preethi

32. Production of PHB from Pseudomonas plecoglossicida and Its Application towards Cancer Detection

Informatics in Medicine Unlocked (February 2018)
Devaraj Sabarinathan, Sabapathy Poorna Chandrika, Pitchai kannu Venkatraman, Murugesh Easwaran, C.S.Sureka and Kathirvel Preethi

31. Statistical Optimization of process parameters for bio plastic (PHA) production by Bacillus subtilis NCDC0671 using orange peel based medium

Iranian Journal of Science and Technology, Transactions A: Science (August 2017)
MridulUmesh, VellingiriManon Mani, ThazeemBasheer and Kathirvel Preethi



30. Anticandidal activity of bioplastic sheets incorporated with neem seed extract

International Journal of Pharmaceutical Sciences Review and Research (July 2017)
MridulUmesh, MadhumathiRajendran, KumaresanPriyanka, Thazeem Basheer and Kathirvel Preethi

29. Bioprocess optimization of PHB homopolymer and copolymer P3 (HB-co-HV) by Acinetobacter junii BP25 utilizing rice mill effluent as sustainable substrate

Environmental technology (June 2017)
Poorna Chandrika Sabapathy, Sabarinathan Devaraj, Anburajan Parthiban and Preethi Kathirvel

28. Alkaline protease from Bacillus pumilus: A Study on their Biodegradative, Dehairing and Destaining

Activity

International Journal of Pharma and Bio Sciences (June 2017)
Kathirvel Preethi and Goldy Primo Beryl

27. Nutritive Characterization of Delimed Bovine Tannery Fleshings for Their Possible Use as a Proteinaceous Aqua Feed Ingredient

Waste and Biomass Valorization (April 2017)
Basheer Thazeem, Kathirvel Preethi, Mridul Umesh and Subramanian Radhakrishnan

26. Production of Single Cell protein and polyhydroxyalkanoate from Carica papaya waste

Arabian Journal for Science and Engineering (April 2017)
Mridul Umesh, Kumaresan Priyanka, Basheer Thazeem and Kathirvel Preethi

25. Evaluation of rice mill effluent bioremediated by polyhydroxyalkanoate production on the growth of broad bean

International Journal of Pharma and Biosciences (April 2017)
Poorna Chandrika Sabapathy, Sabarinathan Devaraj and Preethi Kathirvel

24. Fruit peels: A potential substrate for acetic acid production using Acetobacter aceti

International Journal of Applied Research (April 2017)
Dr. K Preethi, Maha Lakshmi G, Mridul Umesh, Priyanka K and Thazeem B

23. New binuclear Ni (II) metallates containing ONS chelators: synthesis, characterisation, DNA binding, DNA cleavage, protein binding, antioxidant activity, antimicrobial and in vitro cytotoxicity

New Journal of Chemistry (April 2017)
Kalaiaarasi, G., Jain, R., Puschman, H., Chandrika, S. P., Preethi, K., & Prabhakaran, R

22. Biogenic PHA Nanoparticle Synthesis and Characterization from Bacillus subtilis NCDC0671 Using Orange Peel Based Medium

International Journal of Polymeric Materials and Polymeric Biomaterials (February 2017)
MridulUmesh, KumaresanPriyanka, BasheerThazeem and Kathirvel Preethi

21. Production and Characterization of Bio-AuNPs to Induce Synergistic Effect against Multidrug Resistant Bacterial Biofilm.

Journal of Cluster Science. (September 2016)
Sekar Vanaraj, Jayamanohar Jabastin, Swamiappan Sathiskumar and Kathirvel Preethi

20. Anticancer Evaluation of Secondary Metabolites in Hep – 2 cell Lines from Exiguobacterium profundum BC2 – 11

Journal of Microbiology & Biotechnology (September 2016)
Mani VM and Preethi K

19. Biodecaffeination of coffee husk using bacterial enzyme from Enterobacter aerogenes isolated from coffee husk dumped soil.

International Journal of Multidisciplinary Research and Development, (February 2016)
Poorna Chandrika S, Sabarinathan D, Vinothini S, Preethi K



18. Isolation and Identification of keratinolytic bacteria from tannery effluent: A Study on their biodegradative and dehairing activity.

International Journal of Multidisciplinary Research and Development (October 2015)
Preethi. K, Anand. M and Thazeem. B.

17. Water Hyacinth: A Potential substrate for bioplastic (PHA) production using Pseudomonas aeruginosa

International Journal of Applied Research (September 2015)
K. Preethi, Vineetha and Mridul Umesh

16. Bioprospecting Endophytic Fungi and Their Metabolites from Medicinal Tree Aegle marmelos in Western Ghats, India

Mycobiology (September 2015)
Vellingiri Manon Mani, Arockiamjeyasundar Parimala Gnana Soundari, Damodharan Karthiyaini and Kathirvel Preethi.

15. Screening of Biosurfactant Producing Bacteria from Oil Contaminated Sites of Erode District, Tamilnadu, India.

International Journal of Research (July 2015)
D. Sabarinathan, S. Poorna Chandrika and K. Preethi.

14. Screening of endophytic pigmented fungi for phytochemical and antioxidant activity.

International Journal of Research (July 2015)
Kathirvel Preethi, Mridul Umesh and Anusha.

13. Bioremediation of Coffee husk through Polyhydroxyalkanoates (PHA) production for a greener environment.

International Journal of Recent Scientific Research (June 2015)
S. Poorna Chandrika, D. Sabarinathan and K. Preethi.

12. Characterization and Fermentative Utilization of Tannery Fleshings using Lactobacillus plantarum.

International Journal of Recent Scientific Research (May 2015)
B.Thazeem, K.Preethi and Mridul Umesh

11. Evaluation of antioxidant potential of bioactive colored metabolite isolated from Exiguobacterium profundum BC2-11 and its bioactivities.

International Journal of Recent Scientific Research (April 2015)
Manon Mani V, Keerthana G and Preethi K.

10. Antioxidant and Antimicrobial Evaluation of Bioactive Pigment from Fusarium sp Isolated from Stressed Environment.

International Journal of Current Microbiology and Applied Sciences (April 2015)
V. Manon Mani, M. Shanmuga Priya, S. Dhayalini and K. Preethi

9. Screening and Production of Biosurfactant from Lactobacillus plantarum

Zenith International Journal of Multidisciplinary Research (March 2015)
Mridul Umesh, Dr. K. Preethi, Dr. P. Karthikeyan and B. Thazeem

8. Phytochemical analysis and antioxidant activity of Coralline officinalines and Turbinaria ornata seaweeds from Thoothukudi coastal area

International journal of Bioscience Research. (May 2013)
K.Preethi and T.Shunmuga Piramu.

7. Antibacterial activity of Coralline officinalines and Turbinaria ornata seaweeds from Thoothukudi coastal area.

Development in Microbiology and Molecular Biology (February 2013)
Dr.K.Preethi and T.Shanmuga Piramu

6. Anti-inflammatory activity of Muntingia calabura fruits.

Pharmacognosy Journal (January 2012)
K. Preethi, P.Premasudha, K.Keerthana.



5. In vitro Cytotoxic effects of *Muntingia calabura* Linn. fruits against Human Cancer Cell lines

International Journal of Biotechnology and Biochemistry (April 2011)
K. Preethi, J.M. Sasikumar and Chandramohan

4. Phytochemical studies on *Muntingia calabura* L. fruits from Tamilnadu, India

International Journal of Biotechnology and Biochemistry (February 2011)
Preethi, K., Sasikumar, J.M, and Microcore.

3. In vitro cytotoxic effects of *Evolvulus alsinoides* Linn. Leaves against Human cancer cell lines

Pharmacology online. (July 2010)
N.Vijayalakshmi., K. Preethi, and J.M. Sasikumar

2. Hepatoprotective effect of *Muntingia calabura* fruit extracts against paracetamol induced oxidative stress in wistar albino rats

International Journal of Biotechnology and Bioengineering Research. (June 2010)
Preethi, K., Sasikumar, J.M, and Microcore

1. In vitro antioxidant activity of extracts from fruits of *Muntingia calabura* Linn. From India.

Pharmacognosy Journal (March 2010)
Preethi, K., Vijayalakshmi, N., Shamna, R and Sasikumar, J.M.

Books/Chapters - 9

9. 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.

8. 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.

7. Biosynthesis of Metal Nanoparticles Using Bacterial Metabolites and Their Applications

In Applications of Nanotechnology in Microbiology (February 2024)
Kathirvel, P., Kandasamy, G. D., & Palanisamy, M.

6. In Silico Analysis of Anti-inflammatory Activity of Quercetin from *M.calabura* Fruit.

Natural Product Experiments in Drug Discovery. (October 2022)
K.Preethi

5. Endophytic fungi: A potential source of Bioactive compounds for commercial and therapeutic applications.

Endophytes (April 2021)
K. Preethi, V. Manon Mani & N. Lavanya

4. Phytochemistry of *Muntingia calabura*.L fruits.

Medicinal plants: Promising future for health and new drugs (March 2018)
K.Preethi

3. Flavonoids.

Secondary metabolites (August 2016)
K.Preethi

2. Flavonoids and their health effects

Modern Methods in Phytomedicine (August 2015)
K.Preethi

1. Phytochemical analysis and antioxidant activities of *Terminalia chebula*.

Traditional Herbal Medicine (August 2013)
K.Preethi

Publication Database - 1

1. Gene

Database : NCBI (Gene bank)ID/Ref no : MN889857 (June 2019)
N.Saranya, Dr.K.Preethi



National Journals - 3

3. Fabrication of antibacterial bioplastic sheet using orange peel medium and its antagonistic activity against common clinical pathogens.

Research journal of Biotechnology (June 2017)
Mridul Umesh and Dr.K.Preethi

2. Parthenium hysterophorus: low cost substrate for the production of polyhydroxyalkanoates

Current science (May 2017)
Poorna Chandrika Sabapathy, Sabarinathan Devaraj and Preethi Kathirvel

1. Fermentative utilization of fruit peel waste for Lactic acid production by Lactobacillus plantarum

Indian Journal of Applied Research Microbiology. (September 2014)
Mridul Umesh and Dr. K. Preethi.

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

Projects

Completed - 3

1. Production and Characterization of Bacterial Biosurfactant Isolated from Oil Contaminated Soil Others 1 lakh (August 2015 - August 2016)
2. Biofertilizer and Aqua feed formulation utilizing Tannery fleshing through microbial fermentation RUSA 2.0 - BEICH 8 lakhs (December 2019 - June 2020)
3. Bio prospecting of anticancer compounds from microbial sources. RUSA 2.0 - BCTRC 7.88 lakhs (December 2020 - August 2025)