




Bharathiar University

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

Dr P PONMURUGAN Associate Professor Department of Botany Bharathiar University Coimbatore, 641025 Tamil Nadu E-mail: ponmurugan@buc.edu.in Phone: 9865857816 Office Number: 0422 2428304	
Research Area <ul style="list-style-type: none">• Biomedical Research• Biodiversity Conservation• Lichenology• Tea Pathology	Courses Teaching <ul style="list-style-type: none">• Plant Diversity-I• Algal Technology• Cytology, Genetics and Plant breeding• Applied Botany• Phytoinformatics
Research Experience: 21	Teaching Experience: 16
Research Credentials (as on September 2025 – Source: Google scholar) H-index: 4454 Citations: 35 i10-index: 79	
Copyright : 2 Patents : Granted: 7	
Publications International Journals: 95 Books/Chapters: 4	
Career Other Institutes 1. Designation : Assistant Professor Institution Name : K.S.R. College of Technology Period : June 2003 - June 2008 2. Designation : HoD Institution Name : K.S.R. College of Technology Period : July 2008 - November 2016 At Bharathiar University 1. Designation : Associate Professor Period : November 2016 - September 2025	
Education M.Tech Subject : Biotechnology Institution : Sathyabama University Affiliated University : Sathyabama University Year of Award : December 2010 Ph. D. Subject : Botany Institution : UPASI Tea Research Institute, Valparai Affiliated University : Bharathiar University Year of Award : February 2002	



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Dr P PONMURUGAN , Associate Professor , Department of Botany

M. Phil.

Subject : Botany

Institution : A.N.J.A. College, Sivakasi,

Affiliated University : Madurai kamarajar University

Year of Award : December 1997

M. Sc.

Subject : Botany

Institution : A.N.J.A. College, Sivakasi,

Affiliated University : Madurai kamarajar University

Year of Award : May 1996

B. Sc.

Subject : Botany

Institution : A.N.J.A. College, Sivakasi,

Affiliated University : Madurai kamarajar University

Year of Award : May 1994

Projects

National Level

Ongoing - 2 completed - 14

Research Guidance

Completed

Ph.D. - 5

International Level Institutional Responsibilities

Ongoing - 0 completed - 1

Member in Academic Council & Board of Studies of Affiliated Colleges, of Bharathiar University

Period :Jan 2018 to Till date

Nature of Responsibility :

Member in Faculty Selection Committee of Affiliated Colleges of Bharathiar University

Period :Jan 2018 to Till date

Nature of Responsibility :

Member in Doctoral committee Affiliated Colleges and Served as Member for NIRF team.

Period :Jan 2018 to Till date

Nature of Responsibility :

Member in IQAC and NAAC Coordinator in Bharathiar University, Coimbatore.

Period :Jun 2021 to Till date

Nature of Responsibility :

Visits

1. INSA visiting fellow (2020-05-31 - 2020-04-01)
2. International Symposium on "Sustainable Development through Innovation" (2019-07-23 - 2019-07-25)
3. International Convention Centre, Jeju Island, South Korea. (2017-07-12 - 2017-07-15)
4. Toshi Center Hotel Tokyo 102-0093 Japan. (2014-09-16 - 2014-12-21)
5. Centre for Research and Development, Colombo, Sri Lanka (2013-12-18 - 2013-12-15)
6. Hyatt Hotel and Casino, Manila, Philippines. (2013-08-27 - 2013-04-24)
7. Lincoln University, Christchurch, New Zealand. (2012-08-27 - 2012-08-30)
8. University of Bonn, Bonn, Germany. (2010-09-11 - 2010-09-21)

Collaborations

1. Science and Technology Park, Tung Chung, Hong Kong. (2017-07-09 - 2017-07-17)
2. Leben Care Technologies Pte. Ltd., Singapore. (2018-04-24 - 2020-04-24)



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3. Magnimous Info Tech Pvt. Ltd Bangalore Karnataka, India. (2019-04-27 - 2021-04-27)
4. Armats Biotek Private Limited Chennai Tamil Nadu, India. (2019-11-07 - 2021-11-07)

Programs organized

1. 9th Asian PGPR India Chapter National Conference in collaboration with Asian PGPR Society, Auburn, Alabama, USA (2024-07-30 - 2024-07-31)
2. One day training programme on Human Rights 02.11.2023 National Human Rights Commission, New Delhi (2023-11-02 - 2023-11-02)
3. Two weeks Science Academies'Refreshers Course on 'Modern Biotechnology Tools and Techniques in Biodiversity Conservation' (2022-04-12 - 2022-04-25)
4. Biological Sciences Research (2020-11-18 - 2020-11-19)
5. Faculty Development Programme (FDP) on 'Synthetic Biology' (2020-12-14 - 2020-12-18)
6. Faculty Development Programme on Rural Immersion & Community Engagement for Improving Rural Education (2019-08-09 - 2019-08-13)
7. Entrepreneurship Awareness Camp. (2019-11-07 - 2019-11-09)
8. Workshop on Identification, Bioprospecting and Conservation of Lichen (2019-09-12 - 2019-09-13)
9. Refresher Course on "Biotechnology techniques in biodiversity conservation" (2018-09-10 - 2018-09-24)
10. A Popular Series Lecture Programme on "Conservation of Plant diversity through Biotechnology approaches" (2018-01-22 - 2018-01-23)
11. Entrepreneurship Awareness Camp. (2018-08-06 - 2018-08-08)
12. Faculty Development Programme on Entrepreneurship' (2017-11-06 - 2017-11-21)
13. Recent trends in Life Sciences: Research, Practices and application for sustainable development" (2017-09-07 - 2017-09-08)
14. Science Academies Lecture Workshop on 'Biodiversity and its conservation' (2017-07-17 - 2017-07-18)
15. Entrepreneurship Awareness Camps (2017-07-06 - 2017-07-08)

Patents

Granted - 7

1. Method of in vitro culturing of a mycobiont in a fungal algal symbiosis 07-2019 408182 1.Dr.P.Ponmurugan 2.Mr.R.Kalidoss 3.Mr.K.Arun Prasath
2. MICROWAVE ASSISTED DETECTION OF UV-ABSORBING COMPOUNDS FROM LICHEN 06-2013 407573 1.MR. G. AYYAPPADASAN 2.DR. P. PONMURUGAN 3.DR. RAMA S VERMA 4.DR. SANJEEVA NAYAKA et al.
3. Biosynthesis of gold and silver nanoparticles for stability and extended shelf-life of antagonistic activities 01-1970 US/12/916,497 Dr. Ponmurugan
4. Preparation of PGPR bioformulation for the biological control of red root rot disease in tea plants 10-2010 US/13/092 Dr. Ponmurugan
5. Bioformulation of vermicompost based Trichoderma atroviride against Phomopsis theae, causal agent of Phomopsis canker disease in tea plants 01-2012 US/13/348,444 Dr. Ponmurugan
6. Lichens assisted feed mix for poultry management to enhance the egg production 01-1970 GB1315156.8 Dr. Ponmurugan
7. Electroplating Industrial derived copper nanoparticles for the growth of agricultural crops in India (Ref. No. : GB1315071.9) 01-1970 GB1315071.9 Dr. Ponmurugan

Copyright

1. . A Simple Protocol for Identification of Lichens distributed in Tamil Nadu Ponmurugan 38258/2024-CO/L 30-11--0001 30-11--0001
2. Flora of Educational Institutions (Copyright Ponmurugan 38259/2024-CO/L 30-11--0001 30-11--0001



Selected Publications

1. Green synthesized Se@ZnO nanocomposites using *Ficus religiosa* extract for enhanced photocatalytic degradation of fast green dye and biological applications.

Materials Science and Engineering: B 321: 118478. (March 2025)

Anitha, A., Ponmurugan, P. Esath, N.S., Kannan, S., Sathishkumar, M. and Arunkumar, D.

2. Deep Lichen-Net: Deep learning based automatic classification and segmentation of Lichens in Western Ghats, India.

Bol. Lat. Caribe Plant Med. Aromat. 24 (3): 328 – 344. (March 2025)

Govindasamy, A., Ponmurugan, P., Prabhu, P. and Ramesh, S.M. 2025.

3. Oxytetracycline degradation and antidermatophytic activity of novel biosynthesized MoS₂ photocatalysts.

Materials Science and Engineering B (January 2024)

Sathishkumar, M., Anitha, A., Ponmurugan, P., Arunkumar, D., Esath Natheer, S. and Kannan, S.

4. Anti-Inflammatory Activity of Mycobiont Extract of *Parmotrema austrosinense* (Zahlbr.) Hale in a Zebrafish Model.

Journal of Marine Science Engineering (December 2023)

Kalidoss, R., Ponmurugan, P., Mohammed, R.S., Mujeeb, K., Tae, H.O. and Baji, S.

5. Multifaceted plant growth-promoting traits of indigenous rhizospheric microbes against *Phomopsis theae*, a causal agent of stem canker in tea plants.

World Journal of Microbiology and Biotechnology (July 2023)

Manjukarunambika, K., Abul, K.A.M., Mythili, G.B. and Ponmurugan, P.

6. Developing a fast, reproducible, and simple protocol for virtual lichen herbarium using barcoding and QR code techniques

Journal of Threatened Taxa (July 2023)

Jeya Preethi S and Ponmurugan P

7. Bioefficacy of Lecanoric Acid Produced by *Parmotrema austrosinense* (Zahlbr.) Hale against Tea Fungal Pathogens.

Horticulturae (June 2023)

Kalidoss, R., Ponmurugan, P., Gnanamangai, B.M., Mohammed, R.S., Mujeeb, K., Tae, H.O. and Baji, S.

8. A new record of bloodstain lichen (*Haematomma*) from Southern Western Ghats to the Indian biota.

Feddes Repertorium (January 2023)

Rajaprabu, N. and Ponmurugan, P.

9. Statistical modeling and optimization for the production of secondary metabolites by lichen mycobiont isolated from *Parmotrema austrosinense*.

Physiological and Molecular Plant Pathology (January 2022)

Poornima, S., Rajivgandhi, G., Maruthupandy, M., Mothana, R.A., Noman, O.M., Nasr, F.A., Ponmurugan, P., Moorthy, I.G. and Sivarajasekar, N. 2022.