

Dr. P. Gunasundari

Assistant Professor of Botany
Director, B.Voc/M.Voc Degree Programmes
The American College, Madurai
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Professional Summary: Dedicated and accomplished academic professional with over a decade of experience specializing in plant physiology. Experienced in teaching, research, and academic program management. Published multiple research papers in peer-reviewed journals and actively participates in faculty development programs and conferences.

Educational Qualifications:

Degree	Subject	Institution	Year	Percentage
Ph.D	Botany	Thiagarajar College of Arts & Science	2025	----
M.Phil	Botany	Thiagarajar College of Arts & Science	2006	74.5%
M.Sc	Botany	Thiagarajar College of Arts & Science	2005	82.4%
B.Sc	Botany	Thiagarajar College of Arts & Science	2003	74.22%

Areas of Specialization:

Teaching: Plant Physiology, Plant Diversity, Biodiversity, Plant Systematics

Research: Plant Physiology

Professional Experience:

Assistant Professor of Botany, The American College, Madurai (2011 - Present)

- Lecturer (Botany)*, E.M.G. Yadava Women's College, Madurai (2006 - 2007)
 - Lecturer (Botany)*, Sri Meenakshi Women's College, Madurai (2007 - 2008)
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Journal Publications:

1. Gunasundari P., Rajendran K. (2022). Bioformulation for the quality seedling production of *Azadirachta indica* in tropical nursery conditions. *Journal of Advanced Scientific Research*, 13(8): 102-105.

2. Gunasundari P., Rajendran K. (2024). Effect of Biostimulants on growth and disease suppression of neem (*Azadirachta indica*). *International Journal of Food and Nutritional Sciences*, 13(4): 225-229.
 3. Gunasundari P., Vanitha K., Sasirekha N., Abdul Kader Mohideen M.M. (2024). Biochemical characterization for environmental applications. *International Journal of Research*, XIII(II): 1-26.
 4. Anjanapriya S., Gunasundari P., Meenakshi N., Sasirekha (2021). Heavy metal pollution in soil and water around landfill dumpsite. *International Journal of Zoology and Applied Biosciences*, 6: 299-304.
 5. Anjanapriya S., Sureka M., Gunasundari P., Meenakshi N., Sasirekha (2022). *Providencia rettgeri* with heavy metal tolerance from municipal solid waste. *Journal of Materials and Environmental Science*, 3(1): 1-8.
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Faculty Development Programmes:

- Completed two-week refresher course in Botany (2023) from Ramanujan College, University of Delhi (Grade "A").
 - Participated in interdisciplinary faculty development on "Advanced Research Methodology" (2021) (Grade "A").
 - Completed two-week refresher course on Environmental Studies (2021) from Ramanujan College, University of Delhi (Grade "A").
 - Completed two-week faculty development programme on "Managing Online Classes and Co-Creating MOOCs 3.0" (2020) (Grade "A").
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Conference / Seminar Presentations/ workshop attended

- Participated in faculty development programme Outreach/Service-Learning Programme conducted between August 16-18 2024 at Kodaikanal jointly organized by AIACHE & The American College.
- Participated in the leadership Seminar for Higher Education Leaders conducted by Christ University Higher Education Leadership Institute (CUHELI) AND SPONSORED BY UNITED Board for Christian Higher Education in Asia, from Nov 27-30, 2023 at CHRIST (Deemed to be) University, Bangalore, India.
- Participated in 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 organised by Bishop Heber college, trichy.
- Participated in two days "In Service Teacher Training" programme in Life Science held at Mother Theresa Women's University, Kodaikanal from 12.05.2022 and 13.05.2022

- Presented a paper entitled Above ground biomass and carbon sequestration potential of one year old neem tree *Azadirachta indica (A) Juss* grown in semi-arid condition in International Conference on Unifying Biology through Diversity (ICUBD-2022) organized by Department of Botany, The American College, Madurai, Tamil Nadu on 14 and 15 October 2022.
- Presented a paper entitled Effect of helper bacteria on quality seedling production of *Azadirachta indica (A) Juss*. In tropical nursery condition in International Conference on Innovative and emerging trends in Botany- 2019 organised by department of Botany, Alagappa university, Karaikudi on 6th-7th November, 2019.
- Presented a paper entitled effect of *pseudomonas* sp on biodegradation of glyphosate in DST-SERB sponsored national conference 30th & 31st 2012 organised by PG & Research Department of Botany Thiagarajar college Madurai.
- Participated in State Level Inter Collegiate Seminar on Recent Challenges in Biotechnology conducted by PG Department of Immunology and Microbiology, The American College, Madurai on 17th February 2012
- Participated in the National Conference on Frontier Vistas in Modern Biotechnology (FVMBT-2013) organized by the Department of Immunology and Microbiology, The American College, Madurai on 12th December 2013.
- Presented a poster entitled Nanoparticles-Targeted drug delivery systems in the National Seminar on Cancer biology: Drug Discovery and Novel Therapeutics held at Department of Zoology, Saiva Bhanu Kshatriya College, Aruppukottai, Tamilnadu, India on 23rd January 2015.
- Participated in 2 days National Symposium on Genomic Era 2: Sanger to NGS organised by Department of genetics and held at Sankara Nethralaya Research Foundation on 30th & 31st January 2015.
- Participated in International conference on 'new horizons, emerging challenges and recent paradigms in food mediated immunity and their role in human health and longevity organized by PG research Department of Zoology and Department of Immunology and Microbiology, The American College, Madurai on 31 August – 1 September 2016
- Attended the NAAC sponsored national conference on "strategies of quality initiatives, enhancement and sustenance in higher education" organized by Internal quality assurance cell (IQAC) The American college, Madurai on 21 & 22 February 2017.
- Attended the board of studies meeting (as a alumni member) for the UG/PG/M.Phil. course in the Department of botany of Thiagarajar College, Madurai on 18th April 2017.
- Presented a paper entitled " Bioformulation for the quality seedling production of *Azadirachta indica* in tropical nursery conditions" in the national conference on "impacts of

pollution on Health and restoration of quality environment through biotechnology applications" organized by PG & Research Department of Zoology & PG Department of Immunology & Microbiology, The American College, Madurai on 2&3 February 2018.

- Attended a two days science academies workshop on Taxonomy and conservation of plant diversity on 24 & 25 January 2019 organised by KSCSTE-Jawaharlal Nehru Tropical Botanic Garden and research Institute Palode, Triruvananthapuram Kerala
- Participated in the national conference on "Emerging trends in Microbiology" organised by Post Graduate Department of Immunology & Microbiology of The American College Madurai on 12th March 2019.
- Participated in a National Workshop on recent technological innovations in teaching, learning and evaluation for quality higher Education on 18 & 19 March 2019 organised by Research committee nesamony memorial Christian college, Marthandam sponsored by United Board for Christian Higher Education in Asia.
- Presented a paper in International Conference on Innovative and Emerging trends in Botany (ICIETB-2019) organized by the Department of Botany, Alagappa University, Karaikudi on 6th -7th November, 2019.
- Participated as organizer in INSPIRE Internship Science Camp sponsored by Department of Science and Technology, New Delhi conducted during 15-19 January 2020 at The American College Madurai- 625002.
- Participated in the webinar organized by the ladies Club of The American College on 27th May 2020.
- Participated in the International Webinar on "Research Avenues in Biochemistry" on the 11 & 12 of June 2020 organized by Department of Biochemistry, The American College, Madurai.
- Participated in the National Webinar on " Dissemination of Knowledge on Medicinal Plants through Doctrine of Signatures" on 16.6.2020 organized by Holy cross college, Nager koil.
- Participated in the webinar organized by "American College Central Instrumentation Centre (ACCIC) Webinar" to be held on 7th June 2020, at 10.30 am on wards organized by American College Central Instrumentation Center (ACCIC).
- Participated in the 2 Days Workshop on conducting online classes and webinars organized by DD vaishnav college, Chennai on 8th, 9th July 2020.
- Participated in the webinar on Plant Quarantine-Current status and challenges organized by PSG college of arts and science Coimbatore on 9th July.
- Participated in the webinar "SACRED GROVES - A COMMUNITY APPROACH TO CONSERVE IT" organized by M.R. government arts college Mannargudi on 11th July 2020
- Participated in the webinar on Plant Quarantine-Current status and challenges organized by PSG college of arts and science Coimbatore on 9th July.
- "Micro algae technology for industrial effluent treatment and restoration of polluted waterbodies" organized by St. Joseph's college, Trichy on 17th July 2020
- Participated in the webinar organized by Government arts College for Women Ramanathapuram - Chemistry "Chemistry : Core to BioMed" on 17th July 2020
- Participated in the national webinar on Value addition on coconut organized by arrupe centre for policy research arul anandar college karumathur on 15th July 2020
- Participated in the National Level Webinar on Teacher Vs Learner: Impact of COVID' 19 in

Colleges Organized by IQAC the American college on July 22, 2020

- Successfully completed e-quiz on Medicinal Plants organized by Department of botany L.R.G.Government arts college, Tirupur on July.
- Participated in the national webinar on bamboo Oxygen Park organized by arrupe centre for policy research arul anandar college karumathur on 21 july 2020
- Participated in the webinar on international day for the conservation of the mangrove ecosystem 2020 organized by Environmental information system annamalai university on 27 July 2020.
- Successfully completed two weeks faculty development programme on managing online classes and co creating MOOC's 3.0 from July 25 to august 10, 2020 and obtained "A" grade.

Academic Responsibilities:

- Director, B.Voc/M.Voc Degree Programmes (2023 - Present)
- Co-Convener, Students Services Committee (2022 - Present)
- Deputy Convener, NAAC Committee Criterion V (2022 - Present)
- Project Coordinator, Plants of Green Management Programme

Other Credentials:

- Qualified in State Eligibility Test (SET) - 2012
 - Project Associate, Vaigai Ecology Project (2015 - 2019)
 - Convener, Botanical Garden - The American College (2019 - Present)
 - Member, Green Club - The American College (2016 - Present)
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