




Bharathiar University

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

Dr N GEETHA Professor and Head Department of Botany Bharathiar University Tamil Nadu E-mail: geetha@buc.edu.in Phone: 7010663900 Office Number:	
Research Area <ul style="list-style-type: none">• Plant Biotechnology and Plant tissue culture• Nanobiotechnology and Plant bio active compounds• Phytomedicine and Phytoremediation• Plant Genetic Engineering	Courses Teaching <ul style="list-style-type: none">• Embryology• Cytology• Plant Biochemistry• Horticulture• Phytomedicine• Plant Biotechnology• Plant Physiology• Ethnobotany
Research Experience: 25	Teaching Experience: 25
Research Credentials (as on November 2025 – Source: Google scholar) H-index: 30 Citations: 4042 i10-index: 53	
Publications National Journals: 9 International Journals: 106 Books/Chapters: 13 Conferences: 20	
Career Other Institutes <ol style="list-style-type: none">1. Designation : Scientist Institution Name : Rubber Research Institute of India, Kottayam, Kerala Period : March 1999 - July 20102. Designation : Post Doctoral Fellow Institution Name : IISc Bangalore Period : March 1997 - March 19993. Designation : Professor and Head Institution Name : Mother Teresa Women's University Constituent College , Kodaikanal Period : July 2010 - November 20164. Designation : Lecturer Institution Name : Cheran Arts and Science College, Cheran Nagar, Kangayam Period : July 1995 - March 1997 At Bharathiar University <ol style="list-style-type: none">1. Designation : Professor and Head Period : October 2025 - Till Date2. Designation : Professor Period : December 2016 - September 2025	
Education	



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Dr N GEETHA , Professor and Head , Department of Botany

Ph. D.

Subject : Botany
Institution : Bharathidasan University
Affiliated University : Bharathidasan University
Year of Award : June 1996

M. Phil.

Subject : Life Science
Institution : Bharathidasan University
Affiliated University : Bharathidasan University
Year of Award : March 1992

M. Sc.

Subject : Botany
Institution : Holy Cross College, Tiruchirapalli
Affiliated University : Bharathidasan University
Year of Award : March 1989

B. Sc.

Subject : Botany
Institution : Seetha Lakshmi Ramasami College,
Affiliated University : Bharathidasan University
Year of Award : March 1987

Projects

National Level

Ongoing - 1 completed - 6

Research Guidance

Completed

Ph.D. - 10 M.Phil. - 23 Post-Doc - 2

Submitted

Ph.D. - 1

On Going

Ph.D. - 6

Institutional Responsibilities

Convenor for new courses affiliation of Bharathiar University

Period :Jun 2017 to Till date

Nature of Responsibility :Convenor for new courses affiliation of Bharathiar University

Dept. Co-ordinator of National Institutional Ranking Framework

Period :Jul 2017 to Till date

Nature of Responsibility :Dept. Co-ordinator of National Institutional Ranking Framework

Dept. Online courses Co-ordinator

Period :Jun 2020 to Till date

Nature of Responsibility :Dept. Online courses Co-ordinator

Co-ordinator-CDC of Mother Teresa Women's University

Period :Nov 2012 - Nov 2016

Nature of Responsibility :Co-ordinator-CDC of Mother Teresa Women's University

Member of Govt.Bodies/Institution

Period :Jan 2015 - Nov 2016

Nature of Responsibility :SET, Steering Committee member

Dean of Science in Mother Teresa Women's University

Period :Jul 2010 - Nov 2016

Nature of Responsibility :Dean of Science in Mother Teresa Women's University



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Chairman-IAEC and QAC Mother Teresa Women's University

Period :Nov 2011 - Nov 2016

Nature of Responsibility :Chairman-IAEC and IQAC

Hostel Development committee member

Period :Jun 2012 - Nov 2016

Nature of Responsibility :Hostel Development committee member in Mother Teresa Women's University

Chief Superintendent-Distance and Regular examinations-Mother Teresa Women's University

Period :Jul 2010 - Nov 2016

Nature of Responsibility :Chief Superintendent-Distance and Regular examinations Mother Teresa Women's University

Examination malpractice committee member-Mother Teresa Women's University

Period :Jun 2012 - Nov 2016

Nature of Responsibility :Examination malpractice committee member-Mother Teresa Women's University

Expert member for Faculty selection/promotion committee

Period :Jul 2010 - Nov 2016

Nature of Responsibility :Expert member for Faculty selection in various Universities

Visiting Faculty

Period :Apr 2017 - May 2017

Nature of Responsibility :Visiting Faculty, Deputations to overseas.Western Kentucky University, Bowling Green, KY, USA

Building committee member and Employee committee member in Mother Teresa University

Period :Jun 2013 - Nov 2016

Nature of Responsibility : committee member in Mother Teresa University

Member in Convocation committee

Period :May 2022 to Till date

Nature of Responsibility :Member in Convocation committee in Bharathiar University

Nominated as Dept. National Academic Depository Co-ordinator

Period :Jun 2017 to Till date

Nature of Responsibility :Co-ordinator of Dept. National Academic Depository in Bharathiar University.

Board of Studies

Period :Jan 2018 to Till date

Nature of Responsibility :Member of Board of Studies in Universities and colleges.

Member of Anti-Ragging Committee in Bharathiar University

Period :Dec 2021 to Till date

Nature of Responsibility :Member of Anti-Ragging Committee

Internal Complaint's Committee in Bharathiar University

Period :Jun 2022 - Jun 2023

Nature of Responsibility :Presiding Officer

External Examiner for Ph.D,M.Phil,M.Sc,Courses

Period :Jul 2010 to Till date

Nature of Responsibility :External Examiner for Ph.D,M.Phil,M.Sc,Courses in various Colleges and Universities.

Doctoral committee member

Period :Jul 2010 to Till date

Nature of Responsibility :Doctoral committee member for Ph. D. scholars in various Colleges and Universities

Member Academic Council

Period :Jul 2010 to Till date

Nature of Responsibility :Member Academic Council of various Universities



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Syndicate Member for three months

Period :Jun 2016 - Aug 2016

Nature of Responsibility :Syndicate Member in Mother Teresa Women's University, Kodaikanal
Senate Member of Mother Teresa Women's University

Period :Jul 2010 - Nov 2016

Nature of Responsibility :Senate Member

Selection Committee Member

Period :Jul 2010 - Nov 2016

Nature of Responsibility :Chairman or Member of Selection Committee for various Universities

Chairman or Member Experts Committee f

Period :Jul 2010 - Nov 2016

Nature of Responsibility :Member Experts Committee of various Universities

Chairman or Member for Question paper setting Board

Period :Jul 2010 to Till date

Nature of Responsibility :Chairman or Member for Question papersetting Board/Evaluation for various Universities

Programs organized

1. Organized Training programme supported by BU in the topic "In vivo and In vitro cultivation practice of lucrative orchids". (2017-10-27 - 2017-10-27)
2. Organized National Conference on Bioprospecting of biodiversity for agriculture and medicine: Current status and future prospectives funded by UGC-SAP, Bharathiar University, CBE. (2019-10-03 - 2019-10-04)
3. Conducted "Hands on training for Analytical Techniques in Plant Science (RUSA 2.0 BCTRC)". (2022-08-23 - 2022-08-26)
4. Organized "One day workshop on Integration of Nanotechnology in Plant Tissue Culture". (2023-12-13 -)
5. Conducted Refresher Course in Life Sciences (UGC-HRDC) for faculties. (2021-12-29 - 2022-01-11)

Visits

1. Visited Thailand for paper presentation in an International conference. (2012-09-01 - 2025-09-02)
2. Visited USA for learning advanced techniques in Nanotechnology. (2016-04-15 - 2016-05-07)

Selected Publications

1. Enhancing Seed Germination and Morphological Characteristics of *Saraca asoca* (Roxb.) Willd Using GA3-Encapsulated Chitosan Nanoparticles: A Sustainable Agriculture Through Seed Nano-priming.

BioNanoScience, 15(4), 1-16. (October 2025)
Thangasamy, K., George, A. R., Sajeev, S., Jeganathan, A., Byju, A., & Geetha, N.

2. Green synthesis of demethoxycurcumin-loaded chitosan nanoparticles for the management of potato late blight caused by *Phytophthora infestans*

International Journal of Biological Macromolecules, Volume 322, Part 4, 146990. (September 2025)
Lingareddy Usha Rani, Palani Parameshwari, Anju Rani George, Nishanth Mallappa, Kalaiselvan Saravanakumari, Theerthagiri Anand, Natesan Geetha, Priyank Hanuman Mhatre, Eleftherios Mylonakis, Vaibhav Kumar Singh, Nagendran Tharmalingam, Govindasamy Senthil

3. Chitosan Nanoparticle-Mediated Delivery of *Alstonia venenata* R.Br. Root Methanolic Extract: A Promising Strategy for Breast Cancer Therapy in DMBA-Induced Breast Cancer in Sprague Dawley Rats.

Antioxidants. 13 :1513; 1-33. (December 2024)

Aarthi Jeganathan, Karuppusamy Arunachalam, Anju Byju, Anju Rani George, Sradha Sajeev, Kavimani Thangasamy and Geetha Natesan.



4. A comprehensive review of the *Desmodium* genus: An innovative exploration of its phytopharmacological characteristics, hepatoprotective capabilities, underlying mechanisms of action, and possible applications.

Phytochemistry Reviews. 24: 879-902. (May 2024)

Anju Rani George, Aarthi Jeganathan, Anju Byju, Sradha Sajeev, Kavimani Thangasamy, M. Paulpandi, Natesan Geetha.

5. In vitro anti-venom potential of various solvent based leaf extracts of *Andrographis serpyllifolia* (Rottler ex Vahl) Wight against *Naja naja* and *Daboia russelli*

Journal of Ethnopharmacology, 269, 113687. (April 2021)

Geetha N Hansiya VS

6. Accumulation efficiency, genotoxicity and antioxidant defense mechanisms in medicinal plant *Acalypha indica* L. under lead stress

Chemosphere, Vol:171, Pages:544-553 (March 2017)

Perumal Venkatachalam, Narayanan Jayalakshmi, Natesan Geetha, Shivendra V Sahi, Nilesh C Sharma, Eldon R Rene, Santosh K Sarkar, Paulo JC Favas

7. Zinc oxide nanoparticles (ZnONPs) alleviate heavy metal-induced toxicity in *Leucaena leucocephala* seedlings: a physicochemical analysis

Plant Physiology and Biochemistry Volume 110 Pages 59-69 (January 2017)

P Venkatachalam, M Jayaraj, R Manikandan, N Geetha, Eldon R Rene, NC Sharma, SV Sahi

8. Enhanced plant growth promoting role of phycomolecules coated zinc oxide nanoparticles with P supplementation in cotton (*Gossypium hirsutum* L.)

Plant Physiology and Biochemistry Volume 110 Pages 118-127 (January 2017)

P Venkatachalam, N Priyanka, K Manikandan, I Ganeshbabu, P Indiraarulsevi, N Geetha, K Muralikrishna, RC Bhattacharya, M Tiwari, NJPP Sharma, SV Sahi

9. Zinc oxide nanoparticles (ZnONPs) alleviate heavy metal-induced toxicity in *Leucaena leucocephala* seedlings, a physicochemical analyses

Plant Physiology and Biochemistry Volume 110 Pages 59-69 (August 2016)

S.V. Sahi P. Venkatachalam , M. Jayaraj , R. Manikandan , N. Geetha , Eldon R. Rene , N.C. Sharma

1. *Psidium guajava* L. (Poor Man's Fruit) with Anticancer Potential: A Comprehensive Review

Pomotherapeutic Insights on Wild Edible Fruits, pp-191-214. (March 2025)

Anju Rani George, Kavimani Thangasamy, Natesan Geetha