

Name : Dr. G. ANBARASI

Designation : Assistant Professor

Department : Biotechnology

Qualification : MSc., M.Phil., Ph.D

Experience : Teaching -8 Years

Research : 12 Years

Area of Specialization(s) :

- Plant stress physiology
- Plant Molecular Biology
- Microbial Biotechnology
- Phytochemistry
- Nanotechnology

Email (Official ID) : anbarasi@psgrkcw.ac.in



Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Marine Biotechnology	CAS in Marine Biology, Annamalai University, Tamilnadu, India	2016
M.Phil.	Endocrinology	University of Madras, Chennai, Tamilnadu, India	2011
M. Sc.	Biotechnology	Bishop Heber College, Tiruchirappali, Tamilnadu, India	2010
B.Sc.	Biotechnology	Ponnaiyah Ramajayam College, Thanjavur, Tamilnadu, India	2008
M.Sc	Botany	Bharathiar University	2022

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
PG Diploma	Bioinformatics	Bishop Heber College, Tiruchirappali, Tamilnadu, India	2010
Certification	Coursera-Science of Exercise	University of Colorado Boulder	2024

Certification	Coursera- Introduction to the Biology of Cancer	Johns Hopkins University	2025
Certification	Coursera-Bacteria and Chronic Infections	University of Copenhagen	2024
Certification	Coursera-Generative AI: Introduction and Applications	IBM	2025
Certification	Coursera-Diabetes - a Global Challenge	University of Copenhagen	2025
Certification	Coursera-Drug Development	University of California, San Diego	2023
Certification	Coursera-Drug Discovery	University of California, San Diego	2023
Certification	Coursera-Introduction to the Biology of Cancer	The Johns HopkinsUniversity School of Medicine	2023
Certification	Coursera-Industrial Biotechnology	University of Manchester	2023
Certification	Coursera-Algae Biotechnology	University of California San Diego	2023
Certification	NPTEL	Human Molecular Genetics	2021
Certification	UGC Certificate course on Environmental studies	Bharathidasan University	2006
Certification	Refresher Course on “Advancements in Bioconservation Relevant to Biotic and Abiotic Stress”	Indian Academy of Sciences (Bengaluru), Indian National Science Academy (New Delhi), The National Academy of Sciences India (Allahabad)	2019
Certification	Orientation course on Innovation Ambassador training (Foundation Level)	MoE's Innovation Cell & AICTE	2021

Research Guidance

Programme	No.ofScholars	
	Completed	Pursuing
Ph.D	2	-

Research Publications (Indexed)

- Sreelakshmy Venu, Anbarasi Gunasekar, Shalini Ganeshan. Development of Molecular Docking Algorithms to Evaluate Therapeutic Potential of Ferulic Acid's in Diabetic Wound Healing. International Conference on Emerging Research in Computational Science (ICERCS), 2024.
- Nayana Chathalingath, Anbarasi Gunasekar. First report of *Pantoea ananatis* causing leaf blight disease of pomegranate in India, New Disease Report, 48, October 2023, Scopus indexed. <https://doi.org/10.1002/ndr2.12233>
- Nayana Chathalingath, Anbarasi Gunasekar. Elucidating the physiological and molecular characteristics of bacterial blight incitant *Xanthomonas axonopodis* pv. *punicae* and assessment of H₂O₂ accumulation during host-pathogen interaction. Microbial Pathogenesis 182 (2023) 106277. <https://doi.org/10.1016/j.micpath.2023.106277>. (Impact factor 3.8)
- Nayana Chathalingath, Anbarasi Gunasekar, Sreelakshmy Venu. Phenotypic and molecular characterisation of *Xanthomonas axonopodis* pv. *punicae* from pomegranate leaves. Physiological and Molecular Plant Pathology 128 (2023) 102160. <https://doi.org/10.1016/j.pmpp.2023.102160> (Impact factor 2.741)
- Nayana Chathalingath, Joshua Stephen Kingsly, Anbarasi Gunasekar*. Biosynthesis and Biodegradation of Polyhydroxybutyrate from Mangrove Halophyte *Priestia Flexa*. Microbiological Research, 267, February 2023, 127270. <http://dx.doi.org/10.2139/ssrn.4090278> (Impact factor 5.415)
- Joshua Stephen Kingsly, Nayana Chathalingath, Satya Abbirami Parthiban, Divya Sivakumar, Sambugan Sabtharishi, Vijayakumar Senniyappan, Vimal Sekar Duraisamy, Afridha Jasmine H, Anbarasi Gunasekar. Utilization of sugarcane molasses as the main carbon source for the production of polyhydroxyalkanoates from *Enterobacter cloacae*. Energy Nexus (2022) 100071.
- Srinivasan R, Anbarasi G, Nayana C, Tharangini Priya M. Amelioration Effects of Leaf Extract of *Centella asiatica* on Sodium Arsenate Induced Hepatotoxicity in Zebra Fish. South African Journal of Botany, Volume 151, Part B, December 2022, Pages 432-439. (Impact factor 3.111)
- Anbarasi G, Bhagavathi G, Vignesh R, Srinivasan M, Somasundaram S.T. Effect of exogenous Absciscic acid on growth and biochemical changes in the halophyte *Suaeda maritima*. The Journal of Microbiology, Biotechnology and Food Sciences, April-May 2015, 4 (5): 442-447. (Impact factor 0.9)
- Akshaya Murugesan, Arun Kumar, Anbarasi Gunasekar, Indhumathi Arumugam, Kaarunya Eswaran, Balasubramanian Thangavel, Somasundaram Thirugnanasambandan. Hsp70 and Theta Subunit of T Complex Protein Response to Salt Stress in the Halophyte *Sesuvium Portulacastrum*. J Bioinfo Proteomics Rev, 2(2), 2016.
- G. Anbarasi, S.T. Somasundaram. Impact of exogenous abscisic acid pretreatment on the antioxidant activity of *Suaeda maritima* under salinity stress. International Journal of Advanced and Innovative Research, 5(10), 2278-7844.
- G. Anbarasi, R. Vignesh, M.P. Arulmoorthy, A.C. Rathiesh, M. Srinivasan. Barcoding profiling and Intra species variation within the barcode region of two estuarine fishes *Oreochromis mossambicus* and *Oreochromis niloticus*. Global Journal of Bioscience and Biotechnology, 2015, 4 (1): 59-68. (Impact factor 0.675)
- Vignesh R, Anbarasi G, Arulmoorthy M.P, Mohan K, Rathiesh A.C, Srinivasan M. Variations in the Nutritional composition of the head and bone flours of *Tilapia* adapted to Estuarine and Freshwater environments. Journal of Microbiology, Biotechnology and Food Sciences, February–March 2015, 4(4): 358-364. (Impact factor 0.9). DOI: 10.15414/jmbfs.2015.4.4.

- G. Anbarasi, K. Senthil Kumar, P. Narmadha, N. Srinivasan. Effect of Vitamin C on MRNA Expression of BMPs during Fracture Healing in the Femur Callus of Sprague-Dawley Female Rats. International Journal of Pharmacy and Pharmaceutical Sciences, 2014, 6(8): 208-212. (Impact factor 1.5).

Other Publications: International/National

- Sreelakshmy Venua and G. Anbarasi. Evaluating the antimicrobial efficiency of aqueous extract of *Chromolaena Odorata*. Journal of Xidian University. 18(5), 2024.
- Amrin, A., Anbarasi, G.*, Vishnupriya, B., Karthikeyan, G., Mahavigneshwari, P., Dharani, V., Sowndarya, V., Abdul Razzak, M.I., Vigneshwaran, K. Isolation and screening of keratinase producing bacteria from chicken farm bed. Kongunadu Research Journal, 9 (1): 83-90, 2022.
- Anasuya S, Vishnupriya Benaltraja *, Anbarasi Gunasekar. Pharmacognostical evaluation of *Terminalia chebula* fruit extract against respiratory tract infectious pathogens. International Journal of Pharmaceutical Sciences and Research, 2021; Vol. 12(10): 5446-5457.
- Selva Gayathri, G. Anbarasi, B. Vishnupriya. In vitro anti-inflammatory and anti-microbial potential of methanolic leaf extract from *Morinda citrifolia*. International journal of life sciences and research, Volume 3 (1), 2021; 55-56.
- G. Anbarasi, B. Vishnupriya. Molecular identification and phylogenetic analysis of *suaeda maritima* from parangipettai coastal areas, southeast coast of india. Kong. Res. J. 7(1): 28-34, 2020.
- B. Vishnupriya, G. Anbarasi. Kinetic studies of partially purified lipase from marine Actinomycete *Streptomyces acrimycini* NGP 1. Kong. Res. J. 7(1): 63-68, 2020.
- Anbarasi G, Bhuwaneshwari S, Tamilarasi G, Selvapriya A, Sowmia C, Kanimozhi M. Preliminary screening of biologically active constituents of salt marsh plants from vedaranyam canal of Tamilnadu. European Journal of Pharmaceutical and Medicinal Research, 2018, 5(9), 325-332.
- C. Sowmia, G. Anbarasi. In vitro study on phytochemical screening of *Avena sativa* L. and *Canna indica* L. amalgamation and antioxidant potential. World Journal of Pharmaceutical Research, 2018, 7(11), 1077-1089.

Book Published

- Anbarasi Gunasekar, Arulmoorthy Pachayappan. Lignolytic enzymes production by *Pleurotus ostreatus*. Lambert Academic Publishing. 2019. ISBN: 978-620-0-23707-1.
- Anbarasi Gunasekar. Microbial Biomass Protein (SCP Production and Processing). Notion Press; 1st edition, August 2020. ISBN: 978-1649835727.
- Vishnupriya B, Anbarasi G, Ashna Jose, Ai Santhosh Krishnan K. COVID-19 Surges: Stand with the Facts during a Crisis. Notion Press; 1st edition, 31st August 2021. ISBN: 978-1-63940-763-7.

Book Chapter Published

- G. Anbarasi, B. Vishnupriya. "Advanced Technologies for Smart Agriculture". River Publishers, Alsbjerg Vej 10, 9260 Aalborg, Denmark.

Acted as a Resource Person

- Delivered a lecture on Probiotics for Human Health: New Innovations and Emerging trends” Organized by Department of biotechnology, Sri Ramakrishna College of Arts and Science, Coimbatore on 17th December 2024.
- Acted as a Resource person on community oriented program on creating awareness on Antimicrobial Resistance Prevention to General public of Devarayapuram panchayat, Coimbatore on 15.08.2024
- Acted as a Resource person on community oriented program on creating awareness on Antimicrobial Resistance Prevention to Panchayat Union Middle School, Vellanaipatti, Coimbatore on 20.12.2024 to 21.12.2024.
- Acted as a chair person for the International Colloquium on “ Revisiting Indian Traditional Agriculture – A Contemplation” organized by Department of Botany and Biotechnology between 28 October 2021 and 05 November 2021 in Kongunadu Arts and Science College.
- Delivered a lecture on Spawn production and Mushroom cultivation organized by Women empowerment cell, Sri Ramakrishna College of Arts and Science, Coimbatore on 29th January 2020.

Reviewer in journal

- Reviewer in Plant Methods, BMC Plant Biology, Journal of Applied Life Sciences International

Paper Presentations in Conference

2025

- Showcased product in *Innovation Yuva-2025 Entrepreneurs Innovation Conclave* organized by Swadeshi Jagran Manch, Coimbatore, 17 January 2025.

2024

- Presented paper in *2nd International Conference on Emerging Research in Computational Science*, Karpagam Academy of Higher Education, 12–14 December 2024.
- Presented paper in *National Conference on Frontiers in Biotechnology*, Nandha Arts and Science College, Erode, 6 September 2024.
- Presented paper in *International Conference on Recent Trends in Multi-Disciplinary Research and Innovation*, AVP College of Arts and Science, Thirupur, 13 September 2024.
- Presented paper in *International Colloquium on Revisiting Indian Traditional Agriculture – A Contemplation*, Kongunadu Arts and Science College, 28 October–5 November 2024 (as Chairperson).
- Presented paper in *Biorevolution - Pioneering Innovation in Life Sciences*, Department of Biotechnology, PSGR Krishnammal College for Women, Coimbatore, 21–22 March 2024.

2023

- Presented paper in *International Conference on Biotechnological Inventions in Food, Agriculture, Nutrition and Health Science for the Sustainable Management of Bioresources*, SNR College of Arts and Science, 4–5 October 2023.

2021

- Presented paper in *International Virtual Conference on Biology in the 21st Century*, Department of Zoology, Kongunadu Arts and Science College, 4–13 August 2021.

2020

- Presented paper in *International E-Conference on Novel Biotechnological Approach to Sustain in Pandemic Scenario*, SNMV CAS, 18–21 May 2020.
- Presented paper in *International Virtual Conference on Biology in the 21st Century: Transformation of Biological Sciences in Supporting the Sustainable Development Goals*, Department of Zoology, Kongunadu Arts and Science College & ISCA, 17–30 June 2020.

2018

- Presented paper in *National Seminar on Recent Innovations in Biosciences*, Dr. R.V. Arts and Science College, 5 January 2018.

2017

- Presented poster in *Indian Science Congress Association Coimbatore Chapter*, Kongunadu Arts and Science College, 9–11 October 2017.
 - Presented paper in *Marina 2017: 10th National Conference on Bioprospecting – Indian Perspectives, Challenges & Opportunities*, Dr. N.G.P. Arts and Science College, 28 December 2017.
- 2015**
- Won 2nd prize in oral presentation at the National Seminar *Biogalaxia 2015*, Bharathiar University, Coimbatore.
 - Oral presentation in National Seminar on *Recent Advances in Biotechnology*, Bishop Heber College.

Participation in Conference

- Science Academics Lecture Workshop on Modern Approaches towards Biodiversity and Conservation, Kongunadu Arts and Science College, Coimbatore, 20-21 August 2018.
- Science Academics Lecture Workshop on Recent Scenario in Biotechnology, Sri Krishna Arts and Science College, Coimbatore, 26-27 June 2018.
- Practical Course in DNA Taxonomy and Phylogeny, Sathyabama Institute of Science and Technology, Chennai, 8 May 2018.

Participation in Workshop

- Participated one day International seminar on “Nutraceuticals and its application” sponsored by ISCA, Coimbatore chapter organized by Department of Biochemistry (PG), Kongunadu arts and science college, Coimbatore on 06th March 2018.
- Participated and presented poster in Indian Science Congress Association Coimbatore chapter in Kongunadu Arts and Science College on 9th. 11th October 2017.
- Attended National Seminar on “Advances in Biopharming Technologies, at Nehru Memorial College, Puthanampatti, Trichy.
- Attended National level seminar on “Scientific validation of Medicinal plants”, in Srimad Andavan Arts & Science College, Trichy.
- Attended International symposium on “current trends in Endocrine and reproductive health.” in society for Reproductive Biology and Comparative Endocrinology, University of Mysore.
- Attended National level technical symposium on “Biotechnology”, in Karunya University, Coimbatore.
- Attended the Indian Science Congress Association in Kolkata.

- Participated in & completed Innovation Ambassador Training (Foundation Level, 16 sessions, 30 contact hours), MoE’s Innovation Cell & AICTE, 30 June – 30 July 2025.
- Attended Three-Day International Workshop on *CRISPR/Cas9 Technology – An Evolution of 21st Century Health and Environmental Sustainability*, Department of Biotechnology, Kongunadu Arts and Science College, 9–11 September 2024.
- Attended Workshop on BIO-AI: Hands-on Training in Computational Biology, BIRAC EYUVA Centre, PSGR Krishnammal College for Women, 12–14 July 2023.
- Attended Workshop on Integrated Recirculating Aquaponic and Hydroponic Systems: A Profitable and Sustainable Business, Department of Biotechnology, 24 July 2023.
- Attended Workshop on Screening of Biomarkers for Antimicrobial Resistance – An Innovative Approach, Department of Biotechnology, 4 August 2023.
- Attended Training on New Ventures in Entrepreneurial Explorations in Beekeeping, Department of Biotechnology & KVK Coimbatore, 22 August 2023.
- Attended Training on Medicinal Mushroom Farming – Scope and Entrepreneurial Opportunities, Department of Biotechnology & IVR Carding, Coimbatore, 29 September 2023.
- Attended Two-Day National Workshop on Innovative Tools for Plant Genome Editing Using CRISPR/Cas9 Technology, PSGR Krishnammal College for Women, 3–4 October 2024.

- Attended One-Day Workshop on Knowledge Transfer in Water Quality Monitoring Technologies, India-UK Collaborative Event, Kongunadu Arts and Science College, 13 March 2019.
- Participated in Three-Day Training Programme on Biofertilizer and Biocontrol Agents in Forestry, IFGTB, Coimbatore, 18–20 December 2019.
- Participated in Hands-on Training in Banana Tissue Culture Propagation, Kongunadu Arts and Science College, 29 September 2019.
- Participated in ISCA-Sponsored Hands-on Training on Plant Tissue Culture Technology Transfer for Farming Communities, Kongunadu Arts and Science College, 27 August 2019.
- Attended National Workshop on Research Methodology, ISCA Sponsored, 8 March 2019.
- Attended Workshop on Biostatistical Analysis using SPSS, Kongunadu Arts and Science College, 8 October 2018.
- Attended Workshop on Gene Expression Analysis using Real-Time PCR, 4 September 2018.
- Attended Workshop on NAAC Revised Accreditation Framework, 28 September 2018.
- Attended National Level Training Programme on HPLC Technique, 20 September 2018.
- Attended Science Academies' Lecture Workshop on Biodiversity, Bioprospecting & Conservation, 20–21 August 2018.
- Attended Science Academies' Lecture Workshop on Recent Scenario in Biotechnology, 26–27 June 2018.
- Attended Practical Course in DNA Taxonomy and Phylogeny, Sathyabama Institute of Science and Technology, 8 May 2018.
- Attended Science Academies' Lecture Workshop, Kongunadu Arts and Science College, 21–22 July 2017.
- Attended International Workshop on Health Risk Assessment of Nanoparticles, KS Rangasamy College of Technology, 11–13 September 2017.
- Attended Workshop on HPLC Technique, Kongunadu Arts and Science College, 5 September 2017.

Participation in Faculty Development Programme

- Participated in AICTE-ATAL FDP on Sustainable Biofuels from Agri & Agro-Industrial Wastes by Microbes, Shree Venkateshwara Hi-Tech Engineering College, 24 February – 1 March 2025.
- Participated in National Level Virtual FDP on Innovative Trends in Artificial Intelligence for Teaching & Research, CHIRD, 27–31 January 2025.
- Completed 7-Day FDP on Research Methodology with SPSS, Digi Skill Development Centre & Training Institute, 4–10 June 2025.
- Completed Six-Day International FDP on Nano Innovations: Shaping the World of Tomorrow (NISWT24), Sri Indu College of Engineering and Technology, 9–14 September 2024.
- Completed Five-Day National FDP on Advances in Analytical Techniques and Instrumentation, Hindusthan College of Engineering and Technology, 16–20 December 2024.
- Attended AICTE-ATAL FDP on Nutraceuticals and Food Science, Sri Shakthi Institute of Engineering and Technology, 27 November – 2 December 2023.
- Attended National Online FDP on Industry 4.0 and Digitalization in Healthcare, Kongunadu College of Arts and Science, 26–29 July 2023.
- Completed AICTE-ATAL Elementary FDP on Productivity Enhancement through Meditation, Jaipur Engineering College and Research Centre, 24–28 May 2021.
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Conference/Seminar/Workshop Organized

- **30 June 2025** – Actively involved in organizing one-day *Health and Hygiene Awareness Programme* for the tribal women of Kokkal Village, Nilgiris, in connection with National Doctors' Day and World Microbiome Day. This community outreach initiative was organized under the Popularization of Science Scheme, with generous support from TNSCST and NCSTC, DST, Government of India.
- **12–13 December 2024** – Actively involved as Organizing Member in *TNSCST-sponsored National Conference on Probiotics, Prebiotics, Postbiotics and Biofortification* organized by the Centre of Excellence in Life Sciences, Department of Biotechnology, PSGR Krishnammal College for Women, Coimbatore.

- **3–4 October 2024** – Actively involved in organizing *Two-Day National Level Hands-On Workshop on Innovative Tools for Plant Genome Editing Using CRISPR/Cas9 Technology* organized by the Centre of Excellence in Life Sciences, Department of Biotechnology, PSGR Krishnammal College for Women, Coimbatore.
- **29 September 2023** – Actively involved in organizing *Training on Medicinal Mushroom Farming – Scope and Entrepreneurial Opportunities* organized by the Department of Biotechnology in collaboration with IVR Carding, Coimbatore.
- **22 August 2023** – Actively involved in organizing *Training on New Ventures on Entrepreneurial Explorations in Beekeeping* jointly organized by the Department of Biotechnology and KVK, Coimbatore.
- **7 July 2023** – Actively involved in organizing *Guest Lecture on Entrepreneurship Skill Development in Seaweed Cultivation* organized by the Department of Biotechnology.
- **26 April 2021** – Actively involved in *Virtual Lecture Session on “How to Plan for Start-up and Legal & Ethical Steps”* jointly organized by Institution’s Innovation Council (KASC), Department of Mathematics, and Department of Biotechnology, Kongunadu Arts and Science College.
- **27 January 2021** – Actively involved in *Virtual Orientation Session on “National Innovation and Startup Policy”* jointly organized by Institution’s Innovation Council, Kongunadu Arts and Science College, Coimbatore.
- **13 December 2020** – Actively involved in *Virtual Orientation Session on “National Education Policy”* with a focus on innovation and entrepreneurship jointly organized by Institution’s Innovation Council, Kongunadu Arts and Science College, Coimbatore.
- **22, 24, 26, 28 & 30 November 2020** – Actively involved as Co-convenor in organizing the *Virtual 5-Part Lecture Series on “Nyaya Sastra for Scholarly Research”* jointly organized by PG & Research Department of Biotechnology, KASC & Vyasa Center for Indic Learning (VCIL).
- **8 November 2020** – Actively involved in organizing the *Online E-Quiz Competition on “Cell and Cellular Metabolism”* by PG and Research Department of Biotechnology in association with the NDLI Club of KASC.
- **30 August 2020** – Actively involved in organizing the *Webinar on “NDLI User Awareness Programme”* organized by PG and Research Department of Biotechnology in association with the NDLI Club of KASC.
- **24–27 July 2020** – Actively involved in organizing the *Awareness Webinar Series on Intellectual Property Rights, Innovation and Entrepreneurship* jointly organized by MHRD's Institutional Innovation Council, KASC IPR cell & Department of Biotechnology.
- **7–20 May 2020** – Actively involved in organizing the *National Level Online Quiz on Intellectual Property Rights* jointly organized by IIC, KASC i-hub, IPR cell, and Department of Biotechnology.
- **19 March 2020** – Actively involved in organizing the *ISCA–Coimbatore Chapter Sponsored Water Conservation Symposium* at KASC.
- **3 February 2020** – Actively involved in organizing the *ISCA–Coimbatore Chapter sponsored Awareness Programme for Rural Students on Innovation in Science and Technology (KASC Innovate 2020)* at KASC.
- **1 February 2020** – Actively involved in organizing the *ISCA-sponsored One-Day State-Level Workshop on “Biostatistical Tools for Biological and Public Health Research”* at KASC.
- **15 October 2019** – Actively involved in organizing *Innovation Day Celebration* in connection with the birth anniversary of Dr. A. P. J. Abdul Kalam at KASC.
- **24 July 2019** – Actively involved in organizing *ISCA-sponsored One-Day State-Level Workshop on “Algal Biotechnology Techniques and Prospects for the Sustainable Bioeconomy”* at KASC.
- **5 October 2018** – Actively involved in organizing *ISCA-sponsored One-Day National-Level Workshop on “DNA Taxonomy and Phylogeny”* at KASC.
- **6 September 2018** – Actively involved in organizing *ISCA-sponsored One-Day National-Level Workshop on “Spawn Production and Mushroom Cultivation”* at KASC.
- **7 August 2017** – Actively involved in organizing *ISCA-sponsored One-Day International-Level Seminar on “Advances in Genomics and Proteomics”* at KASC.
- **21 February 2017** – Actively involved in organizing *ISCA-sponsored One-Day National-Level Seminar on “Plant Science for Sustainable Development”* at KASC.

Grants

- Disease Management of Bacterial Blight in *Punica granatum* L. through Biological Approaches Using Microbial Endophytes from Marine Macroalgae sanctioned by GRG Trust. Sanctioned amount- Rs1,20,000. Duration- 1st Sep 2023 – 30th Aug 2025.

Membership in Professional Bodies

- BoS Member in Selvam Arts and Science College, Namakkal During 2024-2026

Indexing and Citations

- **Citation Score: 149**
- **H index: 7**
- **i10 Index:5**