

NAME & QUALIFICATION: Mrs.S.Gomathi M.Sc., M.Phil. (Ph.D).

DESIGNATION: Assistant professor

DEPARTMENT: Biochemistry

Specialization if any : Plant Biochemistry

Vidwan ID : <https://vidwan.inflibnet.ac.in/profile/380239>

Google Scholar ID : [ky5LmogAAAAJ&hl=en](https://scholar.google.com/citations?user=ky5LmogAAAAJ&hl=en)

Orcid ID : [0000-0003-0088-2632](https://orcid.org/0000-0003-0088-2632)

Scopus ID : 57213084344

Educational Qualification details:



S.NO	DEGREE	YEAR OF PASSING	SUBJECT
1	M.Phil	2004	Life Science
2	M.Sc	2000	Biochemistry
3	B.Sc	1995	Biochemistry

PROFESSIONAL MEMBERSHIP: - NIL

Total Teaching Experience: UG- 20 Years. PG-17 Years

No. of research articles published in UGC CARE / SCOPUS / WEB of SCIENCE indexed journals:

International-14, Scopus-5

Book chapter: 01, Patent-1

Book Chapter

https://jmpas.com/admin/assets/article_issue/1640973541JMPAS_NOVEMBER-DECEMBER_2021.pdf

Dr.J.Radhika, Ms.P.Anitha, Ms.S.Gomathi- Title of the chapter “Plants – a reservoir of therapeutics- Chapter in the book “Plants, Animal and Microbes” with ISBN Number 978-93- 93622-22-8

Patent

Title “Productive effect of *Psidium guajava* leaf extract against streptozotocin induced diabetes and lipodosis in rats, Application No202341037659, Publication date-18.08.2023.

LIST OF ARTICLES PUBLISHED

- Thirunethiran Karpagam, B.Varalakshmi, J.Suguna Bai, S.Gomathi. Effect of Different Doses of *Cucurbita Pepo* Linn Extract as an Anti-inflammatory and Analgesic Nutraceutical Agent on Inflamed Rats, International Journal of Pharmaceutical research and development. (IJPRD), 2011; 3(3):22; 184 – 192.
- B.Varalakshmi, Thirunethiran Karpagam, P.Lakshmi Prabha, S.Jannathul Firdous, S.Gomathi. A comparative study on the effects of herbal and conventional medicine on cardio vascular disease. International Journal of Pharmaceutical research and development (.IJPRD, 2011; 3(6):13; 221 – 225
- S.Gomathi, A.Shanmuga Priya, V.Bharathi, B.Varalakshmi and T. Karpagam. Antimicrobial activity and phytochemical studies of flowers of *Tribulus terrestris*. JIJBS, Joseph's International journal of biological sciences. 2012;1(1): 47 - 50.
- V.Bharathi, B.Varalakshmi, S.Gomathi, A.Shanmugapriya, T. Karpagam. Antibacterial Activity of *Tridax Procumbens* Linn. International Journal of Pharma Sciences and Research (IJPSR) 2012; Vol 3(4): 364 –3.
- B. Varalakshmi, T. Karpagam, S.Gomathi, G.Gayathiri, V.Rathina kumar, B.Supraja. Studies on salinity removal capacity of cost effective adsorbent, International Journal of Pharmaceutical research and development. 2014; 5(11):067 – 067.
- S.Gomathi. Jannathul Firdous Phytochemical screening and antibacterial activity of silver nano particle synthesis from *psidium gujava* (l).leaves extract. Indian Journal of Natural sciences. 2016(7)37:11256-11260 ISSN: 0976-0997.
- Varalakshmi B, Anand V, Karpagam T, Shanmugapriya A, Gomathi S, Sugunabai J, V.Suganya, S.Geetha, S.Sathia Nachiyar. Phytochemical Analysis of *Cinnamomum zeylanicum* Bark and Molecular Docking of Procyanidin B2 against the Transcription Factor Nf- κ B. Free Radicals and Antioxidants.2017; 7(2):195-199. Indexing UGC no:48850
- Suganya V, Jannathul Firdous, T Karpagam, Varalakshmi B, Shanmugapriya A, Gomathi S, Sugunabai J. Genotyping of Angiotensin Converting Enzyme (ACE 1) Gene in study subject with hypertension and Chronic Kidney Disease. Research Journal of Pharmacy and Technology.2017;10(8):2607-2610. Indexing UGC no: 10467, Scopus, Indian Citation Index
- Gomathi S, Jannathul Firdous, Bharathi V, Shanmugapriya A, Sugunabai J , Karpagam T, Geetha S, Sathia Nachiyar S, Anusuya. Phytochemical screening of Silver nanoparticles extract of *Eugenia jambolana* using Fourier Infra-Red spectroscopy. International Journal

of Research in Pharmaceutical Sciences (IJRPS).2017;8(3):373-377. Indexing UGC no: 23466, Scopus

- J. Sugunabai, M. Jeyaraj, T. Karpagam, B.Varalakshmi, S. Senthil Rani, A. Shanmugapriya, G. Kalaiyarasi, R. Renuga, S. Gomathi. Outlining of Phytochemicals and GC-MS Profile of *Centella asiatica*. International Journal of Pharmaceutics and Drug Analysis. 2018; 6 (2): 252 – 256. ISSN: 2348-8948; Indexing UGC : 44824.
- Karpagam.T, Jannthul Firdous, Revathy, Shanmugapriya, varalakshmi B, Gomathi S, Geetha S, Noorzaid Mohamad. Anticancer activity of *Aloe vera* Ethanolic leaves extract against invitro cancer cells. Research Journal pharmacy and Technology; 12(5):2019. Scopus
- Geetha S, Jannathul Firdous, Karpagam T, Varalakshmi B, Shanmuga Priya, Sugunabai J, Gomathi S. Studies on hepatoprotective and antiinflammatory activity of *coix lacryma- jobi* (linn). Asian J Pharm Clin Res, Vol 11, Issue 11, 2018, 290-293. Scopus
- Jannathul Firdous, Karpagam T, Varalakshmi B, Sugunabai J, Gomathi S, Revathy, Noorzaid Mohamad. Phytochemical study in ethanolic leaves extract of Aloe vera using Gas Chromatography. International Journal of Research in Pharmaceutical Sciences. 10(2); 2019:1470-1473. Scopus
- Jannathul Firdous, Karpagam T, Varalakshmi B, Shanmuga priya A, Sugunabai J, Anitha P, Gomathi S, Suganya V, Sumathy C, Nang ThinnThinn Htike, Noorzaid Muhamad. V.Bharathi. A Review On Chaotic Covid-19 Infection: Pathophysiology And Treatment Insight. Journal of Natural Remedies .Vol. 21, No. 4(S2), 2020. Scopus.
- Karpagam T, Varalakshmi B, Shanmuga Priya, Sugunabai J, Gomathi S, BharathiV, Priyadarshini, Jannathul Firdous. anti-oxidant evaluation and molecular docking studies of phytocompounds from *madhuca longifolia* as potential thymidylate synthase inhibitor. Journal of Natural Remedies. Vol. 21, No. 6(S2),(2020). Scopus, Web of Science, PubMed, UGC-CARE List Group II (Scopus Source List), Index Copernicus Value (ICV) for 2018 = 120.77
- Gomathi S, Jannathul Firdous, Shanmugapriya A, Varalakshmi B, Karpagam T, Bharathi V, Anitha P, Mahalakshmi P. Antibacterial action of *Pedilanthus tithymaloides* leaves extract and FTIR Phytochemical Finger printing. Research J. Pharm. and Tech. 14(4):-April 2021. Scopus
- Varalakshmi B , Karpagam T , ShanmugaPriya A , Suganya V , Anitha P , Gomathi S , Manikandan R , Abarna T. Nano phytoremediation for textile dye degradation using abutilon indicum silver nanoparticles: photo catalytic activities Journal of medical

pharmaceutical and allied sciences, Volume 10 - Issue 4, 1939, Nov - Dec 2021, Page - 3960-3964. ISSN NO. 2320–7418. Scopus and UGC care II.

- S.Gomathi Phytochemical Analysis and In vitro Anti-oxidant Activities of Medicinal Plants *Cyperus rotundus*, *Tinospora cordifolia* and their Formulation, *Orient. J. Chem.*, Vol. 39(3), 712-720, 2023. ISSN: 0970 - 020X, Web of Science.

DETAILS OF SEMINAR/ CONFERENCES/WORKSHOPS/FDP ATTENDED

State -2, National-8, International-8, Workshop-3 and FDP-2

- Attended an International Conference and presented a model on “**Greeting Food Processing Sector for sustainable safe and food supply**” at IICPT, Thanjavur on 30.10.2010 and 31.10.2010.
- Participated in National symposium on “**Current perspectives in Animal Biotechnology**” at Bharathidasan University, Trichy on 3.2.2011 and 4.2.2011.
- Attended workshop on “**Challenges in Environmental Restoration**” at Bharathidasan University, Trichy on 5.3.2012 & 6.3.2012.
- Attended UGC sponsored State level seminar on “**Modern Trends in Biological Science Towards human health and disease**” at Rajah Serfoji College, Thanjavur 17.02.2012.
- Attended and presented a paper on “**Development and applications of Nano Materials**” in the State Level Seminar at Seethalakshmi Ramaswamy College, Trichy on 29.8.2012 & 30.8.2012.
- Attended a UGC Sponsored National Conference on “**Current Approaches and Challenges in Nanomaterial and Nanomedicine**” (NACNAN-13) & presented a paper on “Ethical issues in nano Medicine” at Rajah Serfoji Government College, Thanjavur on 29.08.2013 & 30.08.2013.
- Participated / presented a poster in Green Biosynthesis of Silver Nanoparticles Using *Psidium Guajava* Leaf Extract and Its Antibacterial Activity in the National Conference on “**Phytochemicals in Medicinal Plants and Food**” organized by the Department of Biochemistry held on 30 & 31st July 2015 at Bharathidasan University Constituent College for Women, Orathanadu.
- Attended and presented a paper entitled “**Phytochemical analysis and anti-cervical cancer activity of *Mukia madrarpatana***” on 31.7.15 to 1.8.15 in a TNSCST sponsored
- National conference on “Phymed-2015” at Bharathidasan University Constituent College, Orathanadu, Thanjavur.
- Participated in a National level technical workshop on “**Next generation sequencing**” in

collaboration with Thermo fisher scientific (USA) on “Frontiers in life science” at St. Josephs college, Trichy on 10.9.2015.

- Participated and presented posters on Green foods title at a National seminar on “**Whole Grains for Healthy Life – Whole Grains -2015**” organized by IICPT, Thanjavur on 16.10.2015.
- Participated and presented papers on various titles in an **International conference on “Clinical Research” – ICCR-2016** organized by the Department of Biochemistry, Shrimati Indira Gandhi College, Trichy, on 25.1.2016.
- Participated and Presented a paper Outlining of Phytochemicals and GC-MS Profile of *Centella asiatica* on “**National Conference on Phytochemicals in Medicinal Plants and Food (MEDFOOD’18)**” organized by the department of Biochemistry, Bharathidasan University Constituent College for Women, Orathanadu On 1.2.2018.
- Participated and presented poster in the **One day International Conference on “New Vistas in Life Science”** organized by the PG Department of Biochemistry, Holy cross College (Autonomous), Trichy held on 11.10.2018.
- Participated in **International conference on “Innovative Research Publication in Finance”** organized by the Department of Management Studies and Department of Commerce Shrimati Indira Gandhi College, Trichy held on 05.07.2019.
- Participated in **International conference on “Novel approaches in Cancer Research and therapy” Science and Technology** organized by the PG and research Department of Biochemistry, Sengamala Thayaar Educational Trust Women’s College - Mannargudi on 26.09.2019.
- Participated in **webinar on “Look beyond what you can with IR imaging”**, organized by on Perkin Elmer 08.05.2020.
- Participated in webinar on “**Menstrual Hygiene-Mystery Unravalled**” organized by Indra Gansan Institutions, Manikandam Trichy-12 held on.15.5. 2020.
- Attended on Webinar on “**Career Opportunities in Science Menstrual Hygiene-Mystery Unravalled**” organized by SASTRA University held on 20-05-2020.
- Attended on Webinar on “**Two days National Level Webinar on Recent Trends in Biological Science**” organized by Sree Narayana Guru College, Coimbatore held on 21.05.2020-22.05.2020.
- Attended on Webinar on “**Guidelines for writing the Research paper**” organized by Arasu Engineering College Kumbakonam, Thanjavur held on 22.05.2020
- Attended on Webinar on “**Chemical Science Frontiers: The Virtual International**

Conference” organized by Uka Tarsadia University Surat, Gujarat -394350 held on 29.05.2020 &30.05.2020

- Attended on Webinar on **“Covid 19 – A Threat to Hypertensive and Diabetic Patients”** organized by Justice Basheer Ahmed Sayeed College for Women-Chennai held on 11.6.2020
- Attended Webinar on **“Introduction to pre-clinical trials”** organized by Rajah Serfoji Govt. College, Thanjavur held on 15.6.2020.
- Attended webinar on **“Ftir & Hplc Instrumentation”** organized by Rajah Serfoji Govt. College, Thanjavur on 27.6.2020.
- Attended a **state level workshop on "Experimental Animals's Model: Care, Maintenance and Handling"** organized by JJ College of arts and Science, pudukkottai held on 26.2.2021.
- Webinar on **“Our job role in food processing company”** organized by post graduate and research department of Biochemistry, Department of Biochemistry, JJ College of arts and science, Pudukottai on 9.7.2021.
- Attended **International seminar on “Recent advances in Translational Medicine”** (ISRATM-2021) conducted by School of life sciences, Marudupandiyar College, Thanjavur on 26. 11.2021.
- Attended webinar on **“Climate change impact and mitigations on National science day celebrations”** organized by center for climate change research, department of environmental biotechnology, school of environmental sciences, Bharathidasan university, Tiruchirappalli. 28.2.2022.
- Participated and presented a paper “Evaluation on phytochemical screening, FTIR analysis and *in vitro* antimicrobial activity of ethanolic extract of *Tinospora cordifolia* in the **International Conference on “Emerging Outlook and Recent Trends in Microbiology”** organized by Department of Microbiology, Shrimati Indira Gandhi College, and Trichy on 26.08.2022.
- Participated and presented a paper “Outline Studies on phytochemical screening, *in vitro* antioxidant activity of ethanolic extract of *Tinospora cordifolia* in the National Conference on “post covid-19 complications - A biotechnological Approach(PCBA'22) organized by PG and Research Department of biotechnology, Jamal Mohamed College, Trichy on 07.09.2022 and 08.09.2022.
- Participated and presented a poster **“Phytochemical profiling, FTIR analysis and in vitro alpha amylase inhibitory activity of ethanolic extract of *Tinospora cordifolia*”** in the

International Conference on Research Trends, strategies and technical advancements in biological and Biomedical Sciences for Sustainability(RTSTA'22) organized by Department of Zoology, Seethalakshmi Ramaswami College, Trichy on 14.12.2022 &15.12.2022.

- Presented a paper titled “Isolation and biological activity of β sitosterol from the ethanolic extract of *Cyperus rotundus* and *Tinospora cordifolia*” and got the 3rd prize in oral presentation in the International conference on phytotherapeutics (ICPT-2023) organized by PG and Research Department of Biochemistry in association with IQAC,
- Presented a paper titled “phytochemical analysis and antidiabetic efficacy of *Cyperus rotundus* and *Tinospora cordifolia*” in the International conference on Engineering and Technology (ICET-2023) sponsored by All India Council for Technical Education (AICTE)New Delhi and organized by Selvam college of Technology,Namakkal on 21.09.2023 and 22.09.2023.

Faculty Development Programme

- Attended **Hands on Training in “ELISA”** conducted by Athma Institute of Mental Health & Social Science Trichy, on 22.08.2010.
- Attended a Faculty Development Programme on “**Skill Based Training Programme on e-literacy**” organized by ICT Academy of Tamil Nadu and Bharathidasan University, Trichy at our College Campus from 11.8.2011 to 13.8.2011.
- Participated in **Hands on training programme on gas chromatography & mass spectrometry**”-basic instrument operation and maintenance at Sathyabama Institute of Science and Technology, Chennai on 24.07.2019 & 25.07.2019.
- Attended FDP on “**Methodology & data interpretation of analytical Instrumentation techniques**” organized by Sathyabama Institute of Science and Technology, Chennai held on 15.6.2020 to 19.6.2020.
- Attended **National Level Five Days Faculty Development Programme** on Digital transformation and innovation in biological sciences- redefining the role of 2K teachers organized by PG department of Biochemistry, Holy Cross College, Trichy on 26th - 30th July 2021.
- Attended **online FDP on research proposal to patenting**-A road map jointly organized by IQAC and PG and research department of Biochemistry, Srimad Andavan arts and science college, Trichy on 25. 8.2021 - 27.8.2021.
- Participated in the **Six Day National Level Virtual Faculty Enrichment Program** on

ALIGNING WITH THE NEW EDUCATIONAL ERA”, organized by Primax foundation and St. Claret College Bengaluru, Shrimati Indira Gandhi college, Tiruchirappalli, and St. Francis de Sales College Bengaluru on 21.02.2022 to 26.02.2022.

- Attended **faculty enrichment programme on “Introduction to cloud computing** organized by department of computer science, IT, and computer applications, Shrimati Indira Gandhi College, Trichy on 26.2.2022.
- Participated in **Faculty enrichment program on “Shape yourself with siddha”** organized by Department of Biochemistry, Shrimati Indira Gandhi College, Trichy on 14.7.22.
- Participated in **IP Awareness/Training programme** under National Intellectual property Awareness Mission organized by Shrimati Indira Gandhi College, and Trichy on 26.04.2023.

Refresher Course

- Participated in the **Science Academies Refresher Course** in **“Bioprospection of Bio resources: land to Lab approach.”** organized by PG and Research Department of Botany, at St. Joseph’s College, Trichy, on 04.01.2018 and 18.01.2018.

AWARDS AND RECOGNITION

Resource Person

- **Unave Marunthu**” conducted by NSS of Shrimati Indira Gandhi College on 28.03.2014.
- **One Day Workshop on “Mushroom Cultivation”** conducted by Department of Biochemistry on 08.07.2014.
- **“A visit to herbal garden and Preparation of herbal Mehendi”** conducted by the Department of Biochemistry on 11.02.2017.
- **“Workshop on Production of organic fertilizer”** conducted by the Department of Biochemistry on 15.07.2017 at K Block Garden, for the II and III year B.Sc Students.
- **“Production of Vermiwash”** conducted by the Department of Biochemistry on 31.03.2018, 15.07.2018 at Garden near canteen for I & II M.Sc. Biochemistry.
- **Biomedical waste management”** conducted by the Department of Biochemistry on 12.10.2019 at Microbiology Laboratory for I & II M.Sc. Biochemistry.
- **Received 3rd prize** for oral presentation titled “Isolation and biological activity of β sitosterol from ethanolic extract of *Cyperus rotundus* and *Tinospora cordifolia* in International Conference on “Phyto therapeutics (ICPT-2023)” organized by PG &

Research Department of Biochemistry, Sengamala Thayaar Educational Trust Women's College (Autonomous) Mannargudi held on 10.2.2023.

Extension activities

- Co-ordinator of students' EXNORA (2009-2010) Shrimati Indira Gandhi College, Trichy.
- Co-ordinator of Fine arts (2016-2019)-Shrimati Indira Gandhi College, Trichy.**
- Placement Co-ordinator (2020-till date)- Shrimati Indira Gandhi College, Trichy