



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Dr.T.Abarna
Designation : Assistant Professor
Department : Biochemistry
Qualification : M.Sc., M.Phil., Ph.D
Experience : Teaching: 22 Research: 10
Area of Specialization(s) : Nanotechnology
Email (Official ID) : abarnat@sigc.edu
Aadhar Number : 2166 9810 7059

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Biochemistry	Marudhupandiyar College (Affiliated to Bharathidasan University), Thanjavur	2017
M.Phil	Life Science	Manonmaniam Sundaranar University, Tirunelveli	2004
M.Sc	Biochemistry	S.T.E.T. Women's college (Affiliated to Bharathidasan University), Mannargudi	2001
B.Sc	Biochemistry	A.D.M.College for women (Affiliated to Bharathidasan University), Nagapattinam	1999

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M.Sc Biochemistry	16	-

Research Publications (Indexed)

International

- T.Abarna 2014. Hepatoprotective activity of *Phyllanthus niruri* whole plant extract against *Staphylococcus aureus* intoxicated Albino rats in *Global journal of Biology, Agriculture and Health Science*. 3(3):256-260. Imp factor:3.122.
- T.Abarna 2014. Larvicidal Efficacy of *Ocimum sanctum* and *Mukia maderaspatana* against the mosquito vector *Aedes aegyptic* in *Journal of International Academic Research for Multidisciplinarity*. 2(8):165-176. Imp factor:1.393.
- Abarna T 2015. Evaluation of Ethanolic leaf extract of *Phyllanthus niruri* and its effect on Carbon tetra chloride intoxicated Hepatotoxicity in Albino rats in *International journal of Innovative Research in Science, Engineering and Technology*. 4(7): 6255-6261. Imp factor: 5.4442.
- T.Abarna 2015. Extraction of Phytochemical characterization of *Phyllanthus niruri* leaves and their evaluation for ethanol intoxicated Hepatotoxic Albino rats in *International journal of Recent Biotechnology*. 3(3): 1-8. Imp factor: 2.47.
- T.Abarna 2018.Hepatoprotective activity of *Brassica oleracea* in Paracetamol intoxicated Albino rats in *European journal of biomedical and pharmaceutical science*. 5(8): 595-599. Imp factor: 4.918.
- T.Abarna 2018.Comparative biochemical investigation of patients with alcoholic and non-alcoholic liver diseases in *World journal of pharmaceutical research*. 7(15):1223-1238. Imp factor 8.074.
- T.Abarna 2019.Gas chromatography-mass spectroscopy analysis of bioactive compounds in the whole plant parts of *Evolvulus alsinoides* in *International journal of basic and applied research*. 9(1): 584-593. Cosmos Imp Factor: 5.86.
- T.Abarna 2019.Invivo anticancer activity of whole plant Ethanolic extract of *Evolvulus alsinoides* against different cell lines in *International journal of research and analytical reviews*. 6(1):80-84. ISSN 23495138.
- T.Abarna, 2024. Anti biofilm efficacy of Phenolic rich fraction from *Cinnamomum zeylanicum* bark against *Pseudomonas aeruginosa* . *Int. J.Adv. Life science research*. Vol8(1) 89-99. 2024. ISSN:2581-48

National

- T.Abarna 2021. Nano phytoremediation for textile dye degradation using abutilon indicum silver nanoparticles; photo catalytic activities in Journal of medical pharmaceutical and allied sciences, volume 10 – Issue 4, 1939, ISSN No. 2320-7418. Scopus and UGC care II.

Book Publications

- Published a book entitled “**Endocrinology**” – Ryan Publishers, ISBN: 9788119587-62-9.9
- Published a book entitled “**Handbook of Immunology**” - Association of Indian Biologist Publications, ISBN: 978-93-9368-46-3
- Title of the chapter “Sustainable life on earth – an interaction between plant, animal and microbe” in Plants, Animal and Microbes with ISBN Number 978- 9393622-22-8.
- Title of the chapter “Biochar at a Glance” in Recent Advances in Life Sciences for Sustainable Development with ISBN Number 978-81-19757-07-7.

Presentations in Conference

- Presented a paper on Environmental impacts on Infertility in Regional Symposium on Environmental impact Assessment and Control (UGC sponsored) held on 2nd and 3rd september 2004 at A.D.M.College for women, Nagapattinam.
- Evaluation of Aqueous leaf extract of Phyllanthus niuriand its effect on Ethanol intoxicated Hepatototoxicity in albino rats presented in National conference on phyto chemicals in medicinal plants and food , 30and 31 July 2015. P. NO. 45.
- Phytochemical characterization of cassia auticulata leaves and their evaluation for antiulcer activitiesof albimo rats presented in National conference on Phytochemicals in medicinal plants and food . 30 and 31 July 2015. P.No.46.
- Presented a poster in “International Conference on Research Trends Strategies and Technical Advancements in Biomedical Sciences for Sustainability” on 14.12.2022 & 15.12.2022 at Seethalakshmi Ramasami College, Trichy.
- Presented a paper on In Vitro Antidiabetic Activity of Cuminum Cyminum, Coriandrum Sativum, Trigonella Foenum Greacum Formulation in International Conference on Phytotherapeutics (ICPT 23) on 10.2.2023 at Sengamala Thayar Educational Trust Women’s College, Mannargudi.Presented a paper on Structural Biology and Drug Discovery in Internationl DBT-CTEP sponsored conference organized by PG & Research Department of Biochemistry in association with IQAC and Bioinformatics and Drug Discovery Society, Sengamala Thayaar Educational Trust Women’s College, Thiruvarur on 16.02.2024 & 17.02.2024
- Presemnted a paper on Phytochemical analysis and in vitro alpha amylase inhibitory activity of

aqueous extract of *Euphorbia hirta* in the International Conference On New Directions In Environmental Ecology And Historical Climate Changes For A Sustainable Future Organized by School Of Life Sciences (Biotechnology, Biochemistry, Microbiology & Chemistry), Maruthupandiyar College, Thanjavur on 13.2.2025

International:

- One day International Webinar on Protein translation with polysome profiling on 11.12.2021 organized by Akilandeswari College, Wandiwashi.

National:

- National Conference on Phytochemicals in medicinal plants and food held on 30th and 31st July 2015 at Bharathidasan University Constituent College for women, Orathanadu.

Participation in Seminars

- Presented a paper on Antibacterial Activity of *Amphimedon paravidis* and *Cranilla australiensis*. Proc. National level Seminar on Microbial Pollution in Aquatic Environment 14th September 2014 pp 69-78.
- Presented a paper on Biodiversity of Microbes in Keezhathottam Mangrove Environs. Proc. National level Seminar on Microbial Pollution in Aquatic Environment 14th September 2014 pp 79-89.
- Presented a paper on Determination of Phytochemical Analysis and Antimicrobial Activity of *Cassia alata*. Proc. National level Seminar on Microbial Pollution in Aquatic Environment 14th September 2014 pp 96-9
- One day seminar on Research Avenues in Biosciences held on 5th March at Marudupandiyar College, Thanjavur.
- One day intercollegiate seminar on Microbial pollution in Aquatic Environment held on 14th September 2014 at Syed Ammal Arts and Science College, Karaikudi.
- International Seminar on Novel Avenues in Environmental Issues and Protection held on 15th and 16th February 2018 at Marudupandiyar College, Thanjavur.
- One day Seminar on Global Challenges and Intercollegiate Competition of Life Sciences held on 15th February 2019 at Marudupandiyar College, Thanjavur.
- National level seminar on Novel Approaches and Future Aspects for Cancer Therapy held on 7th February 2020 at Marudupandiyar College, Thanjavur.
- One day webinar on “Climate Change impact and mitigations” on 28.02.2022 organized by Center

for Climate change Research, Department of Environmental Biotechnology and School of Environmental Sciences, Bharathidasan University, Tiruchirappalli.

Participation in Workshop

- One day workshop on Cytochemical staining Techniques held on 15.09.2022 at Shrimati Indira Gandhi College, Tiruchirappalli.
- One month International workshop on Bioinformatics for Drug Discovery held on 20.05.2023 to 13.06.2023 in the digital modules by Decode life.
- One day workshop titled “Vikaspedia-A platform for Augmentation of Multilingual Digital Resources for Development” organized by department of English of Shrimati Indira Gandhi College, Trichy On 20.2.2025.

Participation in Orientation Programme / Short Term Courses

- Participated in the NEP Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organized by UGC-Malaviya Mission Teacher Training Centre (UG-MMTTC), Bharathidasan University, Tiruchirappalli from 05.02.2024 to 14.02.2024.

Participation in Faculty Development Programme

- Six day National Level Virtual Faculty Enrichment Program on “Aligning with the new educational era” from 21.02.2022 to 26.02.2022 organized by Primax foundation, St.Claret College, Bengaluru, Shrimati Indira Gandhi College, Tiruchirappalli and St.Francis Desales College, Bengaluru.
- Faculty Enrichment program on “Introduction to cloud computing” on 26.02.2022 organized by Shrimati Indira Gandhi College, Tiruchirappalli.
- Faculty Development Program on “Innovative Pedagogies of the future in teaching learning process” on 17.3.2022 and 18.3.2022 organized by Rajiv Gandhi National Institute of Youth Development, Chandigarh.
- Faculty Enrichment program on “Shape yourself with Siddha” on 14.7.22 at Shrimati Indira Gandhi College, Tiruchirappalli.
- Five days (30 Hours) Faculty Development Programme on Train the Trainer program on Digital Productivity and AI Fluency conducted by Naan Mudhalvan in Partnership with Microsoft from 28.08.2023 to 01.09.2023.
- Five days International Virtual Faculty Development Programme on “Recent Trends in

Biological Sciences” – (RTBS 2023) organized by the Department of Botany of Seethalakshmi Ramamswami College from 16.10.2023 to 20.10.2023.

- Seven days Faculty Development Programme on “Understanding Outcome Based Education” organised by IQAC of Shrimati Indira Gandhi College from 10.06.2024 to 15.06.2024 & 18.06.2024.
- 3-day Faculty development programme on Idea Generation Methods organized by ICT Academy from 12.12.2024 to 14.12.2024.
- 6-day Faculty Development Programme on Medical Coding organized by 1347 Health care & Naan Mudhaluvan from 24.06.2024 to 29.06.2024

Invited Speaker / Session Chair- Conference / Seminar / Workshop

- Acted as **a resource person** and delivered a talk on “Prominence of Bioscience ” for Government Girls Higher Secondary School students, Townhall, Tiruchirappalli on 05.07.2024.