



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. P. Anitha
Designation : Assistant professor
Department : Biochemistry
Qualification : M.Sc., M.Phil., PGDCA, Ph.D.
Experience : Teaching: 29 years Research: 1 year (M.Phil)
Area of Specialization(s) : Clinical biochemistry
Email (Official ID) : anithap@sigc.edu
Aadhar Number : 6918 3671 0008

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Biotechnology ID Biochemistry	Jamal Mohamed College	2025
M.Phil	Life science	Manonmanium sundarnar university	2004
M.Sc	Biochemistry	St.Joseph's College	1996
B.Sc	Zoology	Holy cross college	1994
B.Sc	Chemistry	Periyar University	2014

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
PGDCA	Nil	Shrimati Indira Gandhi College	2003

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M.Phil	3	Nil

Research Publications (Indexed)

International

- **Hepatoprotective activity of *Vanilla planifolia*** against Paracetamol-induced Hepatotoxicity in Albino rats. International Journal of Institutional Pharmacy and Life Sciences, 2011/12 1 (3), 70-74
- **In-vitro antibacterial activity of *Aegiceras corniculatum* and *Bruguiera cylindrica*** against isolated bacterial urinary tract infections. International Journal of Pharmaceutical Research & Development, 2012
- **Chemical characterization of GC-MS analysis of *Tabernaemontana divaricata*.**European Journal of Biomedical and Pharmaceutical Sciences. ISSN 2349-8870. Volume 5(4), 451-454. 2018, SJIF impact factor 4.918 UGC.
- Evaluation of **Antihepatotoxic effect of *Avicennia marina*** against alcohol-induced liver injury. International Journal of Pharmaceutics and Drug Analysis. 2018; 6 (2): 225 – 231. ISSN: 2348-8948; UGC: 44824
- **Antibacterial, antifungal and phytochemical** investigation of *Acacia nilotica* . International Journal of Phytotherapy 3 (2), 98-103
- **Anticancer activity of ethanolic extract of *Vitis vinifera* L.** Using MCF7 Cell lines. International Journal of Life Science and Pharma Research. Sp.07. page No: 56-62. 2020. (Special Issue) ISSN 2250-0480

National

- ***In vitro* free radical scavenging potential and phytochemical screening of *Pedilanthus tithymaloides*.** Alochana Chakra Journal (UGC-CARE Group-1) Vol 9(5):7033-7041.ISSN:2231-3990.
- In-vitro anticancer activity of ethanolic extract of *Euphorbia hirta* (L.) Science, Technology and Arts Research Journal 2014 3 (1), 01-07

Patent

1. Got a patent for a Portable device for measuring sugar level through saliva on 28/10/2023.
2. Got a patent “Productive effort of *Psidium guajava* leaf ethanolic extract against streptozotocin induced diabetics and lipidosi in rats” on 18/08/2023.
3. Anti-Cancer composition derived from sprouts of *BORASSUS FLABELLIFER* L on 28/03/2025.

Book Publications

- Sustainable life on earth –An Interaction between Plant, Animals and microbe in the book of “Plants, Animals and Microbes” with ISBN Number 978-93-93-93622-22-8[Book Chapter]

International:

- 1.“ **Antidiabetic and antioxidant effect of leaves of *Aegiceras corniculatum*** a mangrove plant against streptozotocin induced albino rats”- International conference on “Clinical Research- ICCR 2016” by department of Biochemistry, Shrimati Indira Gandhi college, Trichy, on 25. 1. 16.
2. “**Obesity and risk factors**”- International conference on “New Frontiers and challenges in Environmental sciences” by school of bioscience, Marudupandiyar college, Tanjore on 11.2.16 and 12.2 .16.
3. Presented the Paper in the International Seminar on Recent Advances in Translational Medicine held on 26th November 2021 organised by the School of Life sciences , Marudupandiyar College Thanjavur.
4. International Conference on Recent Innovations in Multidisciplinary scientific Research(ICRIMSR- 2022) at Karpagam Academy of Higher Education Coimbatore on 9th to 11th June 2022, by the Basic sciences and Life Sciences Department.
5. Presented paper entitled **Invitro Antidiabetic effect of *Foenogranum* Formulation** in the International conference on Phytotherapeutics Organised by PG and Research Department of Biochemistry on 10 th February 2023.

National:

- 1." **Free radical scavenging activity of Cymbopogon citrates**"- TNSCST sponsored "National conference on phymed-2015" BDU Constituent college for women, Orathanadu on 30.7.15 and 31.7.15.
2. **Synthesis of silver nano particles and anti-microbial studies:** invitro and in silico approach National seminar on herbal drug development by Department of Biochemistry, Sengamala Thayaar Educational Trust Womens College, Mannargudi on 22.09.17.
3. Preliminary Phytochemical analysis of chemical compound in Morinda citrifolia and its antibacterial activity"- National Seminar on "Phytotherapy" organized by the Department of Biochemistry, Rabbiammal College, Thiruvarur on 24.1.18.
4. Evaluation of antihepatotoxic effect of Avicennia marina against alcohol-induced liver injury and chemical characterisation of GCMS analysis of Tabernaemontana divaricate-Participated and Presented a paper 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.
5. Presented the Paper **Anticancer activity of Zeamays** against cell Line in the National Seminar on "Molecular Basis of Cancer and Prevention "held on 18th and 19th February 2020 organised by Department of Life Science,School of Arts and Science ,School of Arts and Science ,PRIST University , Thanjavur
6. **Green synthesis of Nanoparticles of the sprout of Borassus Flabellifer** on sept,7th and 8th 2022 at PG and Research Department of Biotechnology Jamal Mohamed College **Won III Prize.**
7. **Alpha Amylase Production By Sugarcane Molases using Aspergillus Flavus and its Effect on Diabetes Mellitus**,on 12 th February2024 at PG and Research Department of Biotechnology,Jamal Mohamed College. **Won I Prize.**

Participation in Conference

International:

- International conference on "Cardiovascular Research" by Department of Biochemistry, St.Joseph's College, Trichy on 15.2.16.
- International Colloquia on "Bionanomaterial and Bionanotechnology" organized by the Department of Biochemistry at St. Joseph College, Trichy on 8.2. 2018.

International Webinar:

- 1.. 29.5.2020-30-05-2020 - Chemical Science Frontiers: The Virtual International Conference
Department of Applied Science- UkaTarsadia University
- 2.5.6.2020 - Celebrating bioversity AVC College, Mayiladuthurai
- 3.15. 6 .2020- Impact of airborne fungi bacteria endotoxin, Muqyath sha sirguro wakh board college,

National:

Participation in Seminars

- National seminar on "**Prospects and challenges in stem cell research**" at St.Joseph's College. 12.1.2015
- UGC sponsored National seminar on "Clinical Research "at St.Joseph's College.21.1.2015.
- National seminar on “**Whole grains for healthy life- Whole grains 2015**” at IICPT, organized by IICPT, Thanjavur on 16.10.15.
- National seminar on **Human Microbio - An ecological approach**, UGC sponsored, by PG and Research Department of Botany St.Joseph's College, Trichy in association with Trichy Obstretician and Gynecological society (TRIOGS), on 22.1. 2020
- Participated in National Level Faculty Seminar on **Recent Trends in Biological Research** Organised by Faculty of Allied Health Sciences,Chettinad Academy of Research and Education on 3rd December 2022.

National Webinar:

- 26.5.2020 -Agriculture and allied science education under Covid- 19 Mansarovar Global University
- 26.5.2020 - Heart to Brain communication :Impact of RF radiation, Mizoram university.
- 28.5.2020 -Hormones and Breast cancer, Mizoram university
- 1.6.2020 -Contemporary approaches in modern zoology in covid-19 world ,Veerashaiva College Bellari, Karnataka
- 17.06.2020 - Precision medicine: a new paradigm, Holy Cross College, Trichy.
- 22.6.2020 - Introduction to e-Learning Content Creation, CSI, ACM & IEE CS, Chennai in collaboration with ETU team of CDAC, Mumbai.
- Participated in Quiz 27.4.2020 –COVID-19 COMBATANT Vinayaka Mission's Research Foundation

Participation in Workshop

- Two-day National level workshop on **NAAC awareness** programme. 27.7.2019 & 28.7.2019- Primax foundation, in association with INIMS degree college, Arunodaya College, Bengaluru and Shrimati Indira Gandhi College, Trichy.
- Attended State Level Workshop on “**Experimental Animal Model Care, Maintenance and Handling**” Organised by the Department of Biochemistry, J.J College of Arts and Science, Pudukotai on 26th February 2021.
- **Cytochemical staining** Techniques on 15.9.2022 at Shrimati Indira Gandhi College.

Participation in Orientation Programme / Short Term Courses

- One Month CAPSTONE –Based Course Teach on Udemy :A-Z of course Creation launching and E Marketing ,Research Foundation of India.10 th April to 10 th May 2022.

Participation in Faculty Development Programme

1. 05.06.2020 to 11.06. 2020 Role of teachers in quality enhancement and Accreditation, Santhiram Engineering College, Nandyal 14.7.2022 –shape yourself with siddha, Department of Chemistry, Shrimati Indira Gandhi College
2. Dr. P. Anitha, Assistant Professor, attended a “**Massive Upskilling Programme Phase II- Advanced medical coding**” conducted by Tamil Nadu Skill Development Corporation at Bharathidasan University, Trichy from 06.01.2025 to 11.01.2025.
3. Dr. P. Anitha, Assistant Professor, attended an online 5-day Faculty Development Programme on “**Empowering Faculty with AI: Transforming next-Gen Learning**” organised by the Department of Computer Science, Hindustan College of Science and Commerce, Erode from 24.02.2025 to 28.02.2025.

Conference / Seminar / Workshop Organized

Invited Speaker / Session Chair- Conference / Seminar / Workshop

- Acted as a Resource Person on One Day Workshop on “Mushroom Cultivation” conducted by Shrimati Indira Gandhi College on 08.07.2014.
- Acted as a resource person in health awareness programme at Navalpattu Panchayat union on 8.8.15 for 100 days of employment for rural household people under Mahatma Gandhi National rural employment guarantee scheme.

- Acted as a resource person entitled “A visit to herbal garden and Preparation of herbal Mehendi” conducted by the Department of Biochemistry, Shrimati Indira Gandhi College, Tiruchirappalli-2 on 11.02.2017 at Santhanam Vidyalaya CBSC School.
- Acted as a resource person entitled “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
- Acted as a resource person entitled “Production of Vermiwash” conducted by the Department of Biochemistry on 15.07.2018 at Garden near canteen for the I & II M.Sc. Biochemistry.
- Acted as a resource person entitled “Production of Vermiwash” conducted by the Department of Biochemistry on 31.08.2018 at Garden near canteen for the I year B.Sc Students.
- Acted as a resource person entitled an outreach programme on “Production of Vermiwash” conducted by the Department of Biochemistry on 16.10.18 at Panchayat Union Hall, Manakkal East Street, Lalgudi for farmers from village.
- Asia Book of Record Certificate is Awarded for taking part as a speaker in the attempt ‘Longest online millet conclave conducted by organisations Millet Foundation and Tan Millets ,Program titled ‘International Millet Expo and Conclave 2023’ on December 13,2023-18.12.2023.
- Campus Initiative Diversity Programme: Member [2002]
- UGC Career Oriented Programme Coordinator:
Medicinal Biochemistry, Bioinformatics, Enzyme Technology
[2005-2010]
Funds Tapped : Rs. 20 Lakhs for Career Oriented Programme
Rs. 50,000 from K.R.Fuels, Trichy in the year 2019-2020* Study on Menstrual hygiene management of Women in Kolathur Village, Rs. 50,000 from K.R.Fuels, Trichy in the year 2019-2020
- Nature club Coordinator [2000,2018,2019-2023]
- Coordinator -Kumudam snekethi Kalluri kondatam 31.7.2010
- Women's Day Coordinator:2006-2019 -13 Years
- Placement Coordinator -For All UG Science 2021-2023
- Additional Chief Superintendent of Examinations ,SIGC.[2015-2018]
- Senior IQAC Member ,SIGC ,(1999 -2022)
- Exam cell, Member ,SIGC,2024-2025
- Research Committee,Exam cell ,2024-2025

Member in BoS

- BOS in UG&PG Biochemistry Board , Bharathidasan University, Trichy[2012-2015].
- Chairman, Question Paper Setting, PG Biochemistry Board, Bharathiyar University, Coimbatore

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Bharathidasan university	Member in UG& PG Board of studies	2012-2015
Bharathiyar University	Chairman Question paper	2017 -2024

Awards / Honors

Awards	Agency / Institute	Year of Award
.Outstanding Teachers Award	Research Foundation of India ,Odisha ,India	5 th September 2022.
Best Paper Award	Karpagam Academy of Higher Education Coimbatore	9th to 11 th June 2022
Perumaimigu Perasireyar Virudhu	Malar Kanan Pathipagam MAM Creations	24.09.2023
Indian Icon Award 2023	GYAN UDAY FOUNDATION Regognised by Govt. of India	20.11.2023
Asia Book of Record Certificate	Millet Foundation and Tan Millets	18.12.2023.
World Record Certificate	Saurabh Bothra Yoga	12th January 2024.
Empowering Women and Environmentalists	Niti Aayog, Govt of India	7.5.2024.
Best Women Research Excellence Award	Wisdom Educate Academy	08.03.2025.

Recognition National / International

Nature of Recognition	Organization / Institution	Year
Asia Book of Record Certificate speaker	organisations Millet Foundation and Tan Millets	18.12.2023