



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.S.Elamathy

Designation : Assistant Professor

Department : PG and Research Department of Microbiology

Qualification : M.Sc., M.Phil., Ph.D., B.Ed., PGDCA, PGMLT, PGDHT

Experience : Teaching: 8 Research: 5

Area of Specialization(s) : Food Microbiology

Email (Official ID) : elamathys@sigc.edu

Aadhar Number : 5640 0000 0000

AcademicQualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D	Microbiology	Annamalai University, Chidambaram	2014
M.Phil	Microbiology	Srimad Andavan Arts andScience College Trichy	2011
M.Sc	Microbiology	Srimathi Indira Gandhi College - Trichy	2009
B.Sc	Microbiology	Srimathi Indira Gandhi College- Trichy	2007

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma	Post Graduate Diploma in Computer Science and Application	Srimathi Indira Gandhi College, Trichy	2008
Diploma	Post Graduate Medical lab Technician	Srivigneshwara Institute of Nursing and Paramedical Science.	2011
Diploma	Post Graduate Diploma in Herbal Technology	Srimad Andavan Arts and Science College, Trichy	2011

Research Guidance

Programme	No.of Scholars	
	Completed	Pursuing
M.Phil	03	Nil

Research Publications (Indexed)

International:

1. **S.Elamathy** and Kanchana.D, 2012. Antimicrobial activities of spices extracts against spoilage and pathogenic bacteria in fresh pork. *Journal of Pharmacy Research*, 5(12)
2. **S.Elamathy** and Kanchana.D, Characterization of heat stable and inhibitory activity of bacteriocin produced by *Lactobacillus acidophilus*. 2013. *International Journal of Chem Tech Research*.CODEN (USA): IJCRGG ISSN: 0974-4290 Vol.5, No.3, pp 1281-1283.
3. **S.Elamathy** and Kanchana.D, Antimicrobial Activity of Lactic Acid Bacteria Isolated From Goat Meat against Various Pathogenic Bacteria *.International Journal of Pharmaceutical & Biological Archives* 2012; 3(4):930-932.
4. S.Shanthi, **Elamathy. S**, Rajapandian.K and Radha.N 2011. Antixanthomonas activity of *Pongamia pinnata* Linn leaves- cow urineextract- a natural cost effective ecofriendly remedy to bacterial leaf blight of paddy (BLB). *Journal of Pharmacy Research*.

5. R. Venkatesh, Shanthi.S, Rajapandian.K, **Elamathy.S**, Thenmozhi.S and Radha.N. 2011, Preliminary study on antixanthomonas activity, phytochemical analysis and characterization of antimicrobial compound from *Kappaphycus alvarezii*. **Asian journal of pharmaceutical and clinical research**. 4(3).
6. A.M.Murugan, Shanthi, S. Arunachalam, C.Sivakumar,N., **Elamathy, S** and Rajapandian. K. 2012. Study on cow urine and *Pongamia pinnata* Linn seed in farmyard: A natural, cost effective, ecofriendly remedy to bacterial leaf blight (BLB) of paddy. **African Journal of Biotechnology**, Vol. 11(40), pp. 9591-9598, 17.
7. **S.Elamathy** and Kanchana, D. 2014. Effect of chemical preservatives on inhibition of red meat bacterial strains. **ZENTH International journal of Multidisciplinary Research**, Vol.4, December (2014), ISSN 2231-5780, pp.152-156.
8. **S.Elamathy** and Kanchana, D. 2018. Screening of spices extract and antibacterial activities against red meat bacterial (RMB) strain *Escherichia coli* at aqueous and methanol extract. **International Journal of Current Research in Life Sciences**, Vol. 07, No. 02, pp.1012-1017, February, 2018.

National:

1. **S.Elamathy** and Kanchana.D, 2013.Antimicrobial activity of *Allium sativum* and *Zingiber officinale* extracts against food borne pathogens, **Indian Streams Research Journal**, 2(12).
2. S.Saranya, **S.Elamathy**, R.Bharathipriya, D.Jegadeeshkumar and A.Ezhilarasu. **2019**. Prevalence of multidrug resistance and MBL gene detection on the UTI isolates of *Escherichia coli* and *Klebsiellapneumonia*. **Journal of Emerging Technologies and Innovative Research**. Volume 6, issue 1, (ISSN-2349-5162) January 2019.
3. S.Elavarasi, P.Prabhakaran, A.Ezhilarasu, S.Deepa and **S.Elamathy**. 2019. Assessment of the Antimicrobial activity of *Chlorella vulgaris* extracts on betalactamase producing bacterial isolates. **Journal of Emerging Technologies and Innovative Research**. Volume 6, issue 1, (ISSN-2349-5162) January 2019.
4. Published a paper on “ An overview of Breast Cancer Epidemiology, Risk factors, Pathophysiology and Cancer Risk Reduction”in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.

5. Published a paper on “An overview of Medicinal plants as Anticancer agents ”in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.
6. Published a paper on “Invitro biodegradation of plastics using *Bacillus cereus*” Organized by the Department of Botany, Seethalakshmi Ramaswami College, Trichy on 23.12. 2024

Book Publications

1. General Microbiology –ISBN – 978-81-974851-1-4 published bythe Biological Science Forum in July 2024.
2. Presented a paper on Cow urine and *Pongamia pinnata* plant at farmyard- a natural, cost effective and ecofriendly remedy to Bacterial leaf blight of paddy (BLB).MICROPLEXUS 2010 “Hidden Treasures of microbial world” 8th Annual conference of Indian Association of Applied Microbiologist sheld in Bharathidasan University, Dept.of. Biotechnology on Sep-22-25. (2010).
3. Presented a paper entitle done day National conference on future scenario of food microbiology, AVC College (Autonomous) 11th January 2012.
4. Presented a paper entitled “Microbial process for the bioremediation of heavy metal toxicity with chromium” in the national seminar on ‘Global Environment issues and remediation Technologies (GEIRT- 2012).3rd February 2012.
5. Presented a paper entitled “Studies on Antimicrobial activity of solvent extract of different spices” in the DBT Sponsored Nationalseminar on Emerging trend in microbial Biotechnology organized by Department of Microbiology. 20 & 21st February- 2013.Kanchi Shri Krishna College of Arts and Science.
6. Presented a paper entitled “Partial characterization and heat stable bacteriocin produced by *Lactobacillus acidophilus* in National seminar on Golden thoughts on current microbial research organized by Department of Microbiology, Annamalai University on 15th march,2013.
7. Presented a paper entitled “Antibacterial effects of spices against food borne pathogenic bacteria” in the UGC-SAP sponsored Nationalseminar on Farming systems -2013 held at Department of Agronomy, Faculty of Agriculture, Annamalai University on 19th March 2013.

8. Presented a paper (oral) entitled “Characterization of heat stable and inhibitory activity of bacteriocin produced by *Lactobacillus acidophilus*” in two day National conference on Industrial pollution and control Technology-2013 held at Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University on 14th and 15th, March 2013 funded by Council of Scientific and Industrial Research, Government of India and Ministry of Earth Science, Government of India.
9. Presented a poster entitle “Efficiency of spices extracts against spoilage and pathogenic bacteria in fresh pork in 2nd international seminar on Bioscience- “ Elixir of life” (BSEL-2016) organized by the Department of Microbiology & Biotechnology at Sri Ganesh college of Arts & Science, Salem on 5th February 2016
10. Presented a paper entitle “Studies on antimicrobial activity and phytochemical screening of leaf extracts of *Adhatoda vasica* against pathogenic bacteria” (BT032) in 3rd International conference on advances in Biotechnology, Civil & Mechanical Science – ICABCMS’17 organized by department of Biotechnology, Civil & Mechanical Engineering at Selvam college of Technology on 17th & 18th march 2017.
11. Presented a paper entitle “Studies on phytochemical and antimicrobial properties of crude leaf extracts of *carica papays linn.* Department of Biochemistry, ICSSR – New Delhi Sponsored, One day National Seminar on “Impact of Non- Communicable Disease in India, on 11.10.2023 at Shrimati Indira Gandhi College, Trichy.
12. Participated & presented a paper on “Co- Utilization of Common Aquatic Weeds Along With Cattle and Poultry Waste for Biogas Production” International Conference on “ Inspiring Microbiome for the Future Generation” (IMFG -2024) Organized by PG & Research Department of Microbiology, STET in association with Microbiologists Society, India and IQAC on 26th & 27th February 2024.

Participation in Conference

International:

1. Participated in VIT Biosummit 2015, School of Biosciences and Technology held on 14th& 15th October 2015 VIT University, Vellore

National:

1. Participated in state level seminar on scope of organic farming and sustainable agriculture, organized by Model organic farm and National facility for marine Cyanobacteria, Bharathidasan University, Tiruchirapalli (2009).

2. Participated in seminar on Herbal Focus- 10 on February 8th 2010. Srimad Andavan Arts and Science College Trichy.
3. Participated in CSIR sponsored National seminar on “Frontier in biotechnology” during 8th-9th August 2013, organized by Nehru Memorial College Trichy.
4. Participated in state level seminar on “Microbiological and Phytochemical Techniques” organized by the Department of Botany, St. Joseph’s College (Autonomous), Trichy on December 18th 2013.
5. Participated in National level seminar on “Challenges for microbiologists’ to become Bio-Entrepreneurs” MICRO-PRENEURS- 2014. organized by the Department of Microbiology, Periyar University on 27th August, 2014.
6. Participated in Indian Academy of Science Bangalore, Indian National science Academy New Delhi and National Academy of science India, Allahabad on “Science Academies’ lecture workshop on vistas in Biosciences” during 30th & 31st January 2015, organized by PG & Research Department of Botany, school of biological sciences, St. Joseph’s college (Autonomous), Trichy.
7. Participated in the International webinar on Entrepreneurship Skill Development in KOI Fish culture, 29th May 2021, organized by Internal Quality Assurance Cell (IQAC) and PG Department of Zoology, H.H.The Rajah’s College, Pudukkottai.
8. Participated in the International webinar on Recent Development and Career opportunities in Life Science, 28th & 29th May 2021, organized by Internal Quality Assurance Cell (IQAC) and PG Department of Botany, H.H.The Rajah’s College, Pudukkottai.
9. Participated in the National webinar on Malaria and Hypertension: An Evolutionary Conundrum, 23rd October 2021, organized by Department of Biotechnology, Rajah Serfoji Government College (Autonomous), Thanjavur.

Participation in Workshop

1. .Handle various techniques like ELISA-HIV & Hepatitis, Haemagglutination, Haemagglutination inhibition, ODD, VDRL, TPHA in National level workshop on “Advanced microbiological diagnostic methods” NWAMDM 2015 on 7th to 9th February, 2015, organized by selvamm Arts and Science college (Autonomous) Namakkal.
2. Participated in Five days online workshop on SPSS in Research, organized by Star International Foundation for Research and Education on 26.12.2023 – 30.12.2023.

Participation in Faculty Development Programme

1. Participated in the Five Day International Virtual Faculty Development Programme on “Recent Trends in Biological Sciences” (RTBS 2023), 16.10.2023 – 20.10.2023, Organized by the Department of Botany, Seethalakshmi Ramaswami College (Autonomous), Trichy.
2. Participated in the Five Day Faculty Development Programme on Biotechnology for Entrepreneurship, 20.11.2023 – 25.11.2023, organized by Department of Biotechnology, Bon Secours College For Women, Thanjavur.
3. Participated in the Five - Day Virtual Faculty Development Programme on “Recent Advances in chemical Sciences” organized by the Department of Chemistry. KSR college of Arts and Science for Women from 27.11.2023 to 01.12.2023.
4. Participated in the one-week online faculty Development Programme on Green Biotechnology and Bioenergy from 18th to 24th December 2023, organized by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai in association with Biotech Research Society, India (BRSI), India, Indian Society for Technical Education (ISTE) and Institution’s Innovation Council (IIC).
5. Participated in Five days International Virtual Professional Development Programme on “Developing your Professional Edge : Strategies for Career Growth and Financial Success” organized by Department of Commerce with Information Technology & IQAC of PPG College of Arts and Science.
6. Completed the NEP 2020 Orientation & Sensitization programme under Malviya mission Teacher Training programme (MM-TTP) OF University Grants Commission (UGC) Organized by UGC- Malviya mission Teacher Training Centre (UGC -MMTTC) Bharathidasan University, Trichy, from 05.02.2024 to 14.02.2024.
7. Participated in the six days Faculty Development Programme on “Understanding Outcome Based Education” organized by Internal Quality Assurance Cell at Shrimati Indira Gandhi College, Trichy from 10.06.2024 to 15.04.2024 & 18.06.2024.
8. Participated in the six days Faculty Development Programme on “Digital productivity and AI Fluency” Organized by Microsoft partnership with Naan Mudhalvan 1.07.2024 to 6.07.2024.

Conference/Seminar/Workshop Organized

1. National Workshop on “Herbal Medicine Preparation Techniques for primary Health care system” (HMPTPHCS-2016) on January 22nd 2016.
2. National Workshop on “Azolla- A Green Technology for Sustainable Agriculture” - AAGTSA-2017.
3. International Conference on “Microbes in Human & Environmental Welfare- ICMHEW – 2018.

Editorial/Review Board Member

1. Acting as reviewer in Asian Journal of Research in Infectious Disease from 16.04.2024.
2. Acting as reviewer in Journal of Advances in Microbiology from 13.04.2024.
3. Acting as reviewer in Asian Journal of Biochemistry, Genetics and Molecular biology from 03.07.2024