



## PROFILE

Name & Qualification : Dr.S. ELAMATHY, M.Sc., M.Phil., Ph.D., B.Ed., PGDCA, PGMLT, PGDHT

Designation : Assistant Professor

Department Name : Microbiology

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Subject Specilization : Food Microbiology

Total Teaching Experience : 05

Research Experience :05

### **RESEARCH GUIDESHIP**

#### **Ph.D. Guideship:**

Ph.D. Guideship in **Periyar University**, Salem. Approval No:PU/R/RD3/06147/2015. Date 08.10.2015.

#### **M.Phil Guideship :**

Approval No:ng/g/g4/ M.Phil. Guide/018626/2015Date: 10.09.2015.M.Phil Guideship in **Periyar University**, Salem.

No.of.Scholars who have taken their M.Phil under my guidance **03**

No.of. research articles published in indexed Journals: **11**

### **ACTED AS ORGANIZING SECRETARY IN WORKSHOP/CONFERENCE:**

1. National Workshop on “Herbal Medicine Preparation Techniques for primary Health care system” (*HMPTPHCS-2016*) on January 22<sup>nd</sup> 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.

### **LIST OF PAPERS PUBLISHED IN INTERNATIONAL JOURNALS**

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, 2013.Antimicrobial activity of *Allium sativum* and *Zingiber officinale* extracts against food borne pathogens, *Indian Streams Research Journal*, 2(12).
3. **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.
4. **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.
5. S.Shanthi, **Elamathy. S**, Rajapandian.K and Radha.N 2011. Antixanthomonas activity of *Pongamia pinnata* Linn leaves- cow urine extract- a natural cost-effective ecofriendly remedy to bacterial leaf blight of paddy (BLB). *Journal of Pharmacy Research*.
6. 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).
7. 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.
8. **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.
9. **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.
10. 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 *Klebsiella pneumonia*. *Journal of Emerging Technologies and Innovative Research*. Volume 6, issue 1, (ISSN-2349-5162) January 2019.
11. 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.

#### **CONFERENCES, SEMINARS ATTENDED AND PAPERS PRESENTED:**

1. 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” 8<sup>th</sup> Annual conference of Indian Association of Applied Microbiologist held in Bharathidasan University, Dept.of. Biotechnology on Sep-22-25. (2010).

2. 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).
3. Participated in seminar on Herbal Focus- 10 at Srimad Andavan Arts and Science College Trichy on February 8<sup>th</sup> 2010.
4. Participated in National conference, National congress on Bioscience Research 26<sup>th</sup> and 27<sup>th</sup> August 2011.
5. Presented a paper entitled done day National conference on future scenario of food microbiology, AVC College (Autonomous) 11<sup>th</sup> January 2012.
6. 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), 3<sup>rd</sup> February 2012.
7. Presented a paper entitled “Studies on Antimicrobial activity of solvent extract of different spices” in the DBT Sponsored National seminar on Emerging trend in microbial Biotechnology organized by Department of Microbiology. 20 & 21<sup>st</sup> February- 2013. Kanchi Shri Krishna College of Arts and Science.
8. 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 15<sup>th</sup> march, 2013.
9. Presented a paper entitled “Antibacterial effects of spices against food borne pathogenic bacteria” in the UGC-SAP sponsored National seminar on Farming systems -2013 held at Department of Agronomy, Faculty of Agriculture, Annamalai University on 19<sup>th</sup> March 2013.
10. 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 14<sup>th</sup> and 15<sup>th</sup>, March 2013 funded by Council of Scientific and Industrial Research, Government of India and Ministry of Earth Science, Government of India.
11. Participated in CSIR sponsored National seminar on “Frontier in biotechnology” during 8<sup>th</sup>-9<sup>th</sup> August 2013, organized by Nehru Memorial College Trichy.
12. Participated in state level seminar on “Microbiological and Phytochemical Techniques” organized by the Department of Botany, St. Joseph’s College (Autonomous), Trichy on December 18<sup>th</sup> 2013.
13. 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 27<sup>th</sup> August, 2014.

14. 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 30<sup>th</sup> & 31<sup>st</sup> January 2015, organized by PG & Research Department of Botany, school of biological sciences, St.Joseph’s college (Autonomous), Trichy.
15. 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 7<sup>th</sup> to 9<sup>th</sup> February, 2015, organized by Selvam Arts and Science college (Autonomous) Namakkal.
16. Participated in VIT Biosummit 2015, School of Biosciences and Technology held on 14<sup>th</sup> & 15<sup>th</sup> October 2015 VIT University, Vellore.
17. Presented a poster entitled “Efficiency of spices extracts against spoilage and pathogenic bacteria in fresh pork in 2<sup>nd</sup> 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 5<sup>th</sup> February 2016.
18. Presented a paper entitled “Studies on antimicrobial activity and phytochemical screening of leaf extracts of *Adhatoda vasica* against pathogenic bacteria” (BT032) in 3<sup>rd</sup> 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 17<sup>th</sup> & 18<sup>th</sup> March 2017.
19. Participated in the International webinar on Entrepreneurship Skill Development in KOI Fish culture, 29<sup>th</sup> May 2021, organized by Internal Quality Assurance Cell (IQAC) and PG Department of Zoology, H.H.The Rajah’s College, Pudukkottai.
20. Participated in the International webinar on Recent Development and Career opportunities in Life Science, 28<sup>th</sup> & 29<sup>th</sup> May 2021, organized by Internal Quality Assurance Cell (IQAC) and PG Department of Botany, H.H.The Rajah’s College, Pudukkottai.
21. Participated in the National webinar on Malaria and Hypertension: An Evolutionary Conundrum, 23<sup>rd</sup> October 2021, organized by Department of Biotechnology, Rajah Serfoji Government College (Autonomous), Thanjavur.
22. 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.
23. Presented a paper entitled “Studies on phytochemical and antimicrobial properties of crude leaf extracts of *Carica papaya* 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.
24. 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.

## **RESOURCE PERSON**

1. Acting as a resource person in state level hands on training in “Advanced microbiological techniques” on 19<sup>th</sup> & 20<sup>th</sup> February, 2015, organized by Selvamm Arts and Science College (Autonomous) Namakkal.