

Name : Dr. J. Rengaramanujam

Designation : Professor and Head

Department : Microbiology

Qualification: M.Sc., M. Phil., PGDBI., Ph.D., SET., NET(CSIR)

Experience : Teaching – 20 Years | Research – 7 Years

Area of Specialization: Antimicrobial Resistance and Bioprospecting

Email : drrengaramanujam@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Microbiology	Bharathidasan University	2013
M.Phil.	Microbiology	Bharathidasan University	2005
M.Sc.	Microbiology	Bharathidasan University	2004
B.Sc.	Microbiology	University of Madras	2002

Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / Agency Name	Year
PGDBI	Bioinformatics	Bharathidasan University	2006
TNSET	Microbiology	Mother Teresa University	2016
NET(CSIR)	Microbiology	UGC-CSIR	2018

Projects

Completed

Project Title	Agency	Amount	Duration
Investigation on crude and bioactive compounds from marine microalgae for preventing coronary heart disease.	UGC Major Research Project (Co-Investigator)	₹ 12,23,700	2010-2012

A study on efficacy of coir pith medium for mass cultivation of white (wood) rot fungi and mass production of ligninolytic enzymes – an environmental remedy on industrial value.	TNSCST (Student Project)	₹ 10,000	2016-2017
Hazardous Parthenium weed compost and pseudomonas fluorescens- A potential growth enhancer and immunostimulant for plants(Tomato).	UGC Minor project (Principal Investigator)	₹ 1,15,000	Completed
Exploration of peatland ecosystem for isolation of potential methanogenic bacteria and methane production from domestic waste by rapid decomposition.	DrNGP ASC Seed Money	₹ 5,000	Completed
XVI Louis Pasteur National Seminar on “Novel Diagnostic and Drug Development Strategies for Infectious Diseases (NDID-2024) – 22nd & 23rd February, 2024. (Convener).	DST – SERB, Govt. of India	₹ 100, 000	2023-2024

Patent

Title	Status	Year
Red Cabbage Extract as Natural Redox Indicator in Methyl Red, Carbohydrate Fermentation and Citrate Utilization Test for Identification of Enteric Bacteria	Published	2023

Consultancy

Nature of Consultancy	Client	Amount	Status
Antibacterial assay	CDF Dept. Dr. NGP ASC	₹ 2000	Completed
Antimicrobial analysis	PSGR Krishnammal College for Women,	₹ 3000	Completed
Fundamental Training in Microbiology	III B.Sc., Zoology, PSGR Krishnammal College for Women	₹ 18,500	Completed

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	1	5
M. Phil.	6	-
M. Sc	50	5

Research Publications

International:

- P. Arun, V. Shanmugaraju, **J.Renga Ramanujam**, S. Senthil Prabhu and E. Kumaran, **Biosynthesis of silver nanoparticles from *Corynebacterium* sp and its antimicrobial activity**, *Intl. J. Curr.micobiol.App.Sci*, 2(3); 57-64 (2013).
- S.S. Sudha, Karthic Rajamanickam, and **J.Renga Ramanujam**, **Microalgae mediated synthesis of silver nanoparticles and their antibacterial activity against pathogenic bacteria**. *Indian Journal of Experimental Biology*, 52; 393-399 (2013).
- V.P. Shanmugaraju, Arun, **J.Renga Ramanujam**, and S. Senthil Prabhu, **Isolation of bacteria from seacosts and screening for its antibacterial substance production**, *Intl.J.Curr.micobiol.App.Sci*. 2(8); 347-358 (2013).
- Karthic, Rajamanickam, S.S. Sudha, Mebin Francis, T. Sowmya, **J. Renga Ramanujam**, Periyasamy Sivalingam, and Kandasamy Prabakar, **Microalgae associated *Brevundimonas* sp, MSK4 as the nanoparticle synthesizing unit to**

produce antimicrobial silver nanoparticles. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 113; 10-14 (2013).

- **J. Renga Ramanujam**, S.Kulothungan, E. Kumaran , S. Senthil Prabhu , P. Arun and V. Shanmugaraju, **Optimization of Salicylic acid production by *Pseudomonas fluorescens* for the control of *Alternaria alternata* leaf spot in Tomato Plant**,*Scrutiny International Journal of Agriculture, Plant Biotechnology and Bio-products*,2(1); 24-37 (2015).
- **J. Renga Ramanujam**, S. Kulothungan, S. Senthil Prabhu, E. Kumaran, V. Shanmugaraju and P. Arun, **A study on synergism between *Pseudomonas fluorescens* and *Parthenium hysterophorus* as a bio-control agent to *Alternaria alternata* (leaf spot) in *Lycopersicon esculentum*(tomato)**, *Scrutiny International Journal of Microbiology and Bio-Technology*,2(1); 25-38 (2015).
- B. Sindhuja, **J. Rengaramanujam**, S. S. Sudha and J. Devakumar (2019), In Vitro Antibacterial and Cytotoxicity Evaluation of Aloe Vera Associated Endophytic Fungi, *International Journal of Pharmacy and Biological Sciences* 9 (3), 750-757.
- P. Puvanesan, S. Reshmika and Dr. **J. Rengaramanujam (2019)**, Hazard Analysis, risk assessment of western toilets and antibacterial activity of *Pergularia daemia* leaf extract against bacterial isolates from toilets, *International Journal of Research and Analytical Reviews* 6 (2), 966-972.
- Senthil Prabhu S, **J Renga Ramanujam** and Sudha S S (2019), Antibacterial Activity of Silver Nanoparticles Synthesized by using Lichens *Heterodermia boryi* and *Parmotrema stuppeum*, *International Journal of Pharmacy and Biological Sciences-IJPBS* 9 (2): 1397-1402.
- Sathish VD, Guru Prasad Mohanta, Elizabeth Anna Mathew, **J Renga Ramanujam (2020)**, Dynamism in Resistance Pattern of *Escherichia coli*-A Drift from Indian Council of Medical Research (ICMR)-Antimicrobial Use Guidelines, *International Journal of Current Microbiology and Applied Sciences* 9(8), 2911-2916.

- Sharmila.S, Pavithra.M.E, **Rengaramanujam.J** , Kavitha.P (2022), Extraction of Polymer from Bacteria and Fungi and Its Characterization, International Journal of Creative Research thoughts (IJCRT) 10(9), 255-265.
- C. Anuvaishnavi and **J. Rengaramanujam** (2022) Isolation and Identification of *Bacillus Subtilis* from Paper Industry Effluent for Plant Growth, International Journal of Innovative Research in Technology (IJIRT) 6(12), 1-9.
- Marimuthu E. Pavithra, **Rengaramanujam Jayaraman**, Raja S. Azarudeen and Marimuthu Thirumarimurugan (2022), Casting hydrophilic polymers blended polycaprolactone membranes for drug delivery to eradicate the cancer cells and pathogenic microorganisms, *Polym Advanced Technol*, 1-14.
- B. Sindhuja, **J. Rengaramanujam** and R. Arivukkarasu (2023) *In vitro* Antimicrobial efficacy of *Pergularia daemia* against oral pathogen. *Gradiva Review Journal*, 9(3), 1146-1157.
- Marimuthu E. Pavithra, **Rengaramanujam Jayaraman**, and Marimuthu Thirumarimurugan (2023), Natural and Hydrophilic Polymers blend PCL Membranes loaded with Anticancer drug as Drug Delivery Vehicles: Fabrication, Characterization, anticancer and antimicrobial assay, *Metzet*, 112-141.
- Marimuthu E. Pavithra, **Rengaramanujam Jayaraman**, Raja S. Azarudeen and Marimuthu Thirumarimurugan (2023) Fabrication of polycaprolactone-xanthan gum-based membranes as potential drug carrier to control the growth of cancer cells and microbial strains, *Polymer Bulletin*, 1-25.
- B. Sindhuja, and **J. Rengaramanujam** (2024) Synthesis and Characterization of silver nanoparticles from *Pergularia daemia* leaf extract and its effect on oral microbiome. *GIS Science Journal*, 11(2), 178-189.

National:

- R. Anand, J. **Renga Ramanujam**, S. Kulothungan, V. Sharanya, C.N. Murugalakshmi and K. Bhuvaneswari, **Plastic waste - a hazardous chemical nuisance to environment: a focus and remedy**, *J Ind Pollut Control*, 24(2); 129-32 (2008).
- N. Prabhu, J. **Renga Ramanujam** and P. Anna Joice, **Efficiency of plants-based holy stick fumigation against infectious bacteria**, *Indian journal of Traditional Knowledge*, 8(2); 278-280 (2009).
- **J. Renga Ramanujam** and S. Kulothungan, ***Pseudomonas fluorescens* economically and ecologically farmer friendly biofertilizer and biocontrol agent**, *JCMR*, 1(1); 107-113 (2011).
- **J. Renga Ramanujam** and S.Kulothungan, ***Parthenium hysterophorus* can be a potential weed for environmental and ecological exploration by tomato cultivating farmers**, *JCMR*, 1(2); 104-109 (2011).
- **J.Renga Ramanujam**, S. Kulothungan, S. Anitha, and K. Deepa, **A study on compatibility of *Pseudomonas fluorescens* L. and *Parthenium hysterophorus* L. as a biocontrol agent to leaf spot by *Alternaria alternata* f. sp. *lycopercisi* in tomato**, *South As. J. Biol. Sci.* 1(2); 71-86 (2011).
- **J. Renga Ramanujam** and S. Kulothungan, **A novel approach to intrude secondary metabolites of *Pseudomonas fluorescens* as a biocontrol substance against *Alternaria alternata***, *IUP Journal of Biotechnology*, 1(1); 107-113 (2011).
- S.S. Sudha, R. Karthic, S. Naveen and J. **Renga Ramanujam**, **Antihyperlipidic activity of *Spirulina platensis* in TritonX-100 induced hyperlipidemic rats**, *Hygeia, JD. Med.* 3(2); 32-37 (2011).
- S.S. Sudha, R. Karthic, Mebin Francis, T.S. Soumya and **J.Renga Ramanujam**, **Isolation and preliminary characterization of associated microorganisms from *Spirulina* products and their silver mediated nano-particle synthesis**. *J. Algal Biomass utilization, Med.* 2(3); 1-8 (2011).

- S.S. Sudha, R. Karthic, **J. Renga Ramanujam** and Athulya, **Antimicrobial activity of *Spirulina platensis* and *Aphanothece* sp, on selected clinical bacterial isolates and its antioxidant activity**, *South As. J. Biol. Sci*, 1(2); 87-98 (2011).
- **J. Renga Ramanujam** and S. Kulothungan, **Hazardous weeds and *Pseudomonas fluorescens* as soil amendments for growth promotion and defense enhancement of *Lycopersicon esculentum***, *ISHM- Research proceedings*, 1(1); 171-185, (ISBN No: 978-1-4507-5165-0) 2012.
- S.S. Sudha, R. Karthic, R. Rajesh Kumar and **J.Renga Ramanujam**, **An investigation on antimicrobial activity of *Leucas aspera* against bovine pathogens**. *ISHM- Research proceedings*, 1(1); 214-224, (ISBN No: 978-1-4507-5165-0).
- S.S. Sudha, Karthic Rajamanickam, and **J.Renga Ramanujam**, **Microalgae mediated synthesis of silver nanoparticles and their antibacterial activity against pathogenic bacteria**. *Indian Journal of Experimental Biology*, 52; 393-399 (2013).
- **J. Rengaramanujam**, J. Radha and C. Sathyajothi, **The detection and treatment strategy for microorganisms with extended spectrum β -lactamases (ESBL) and AmpC β -lactamase producers in hospital**, “*Transitional and Translational Scenarios in Biological Sciences*” (3 I’s-*In vitro* to *In vivo* to *In silico*), Conference proceedings. 1; 152-161 (2016).

Book Chapters

- B. Sindhuja, **J. Rengaramanujam** and J. Devakumar Contributed a chapter in the book *Advances in Pharmaceutical Sciences* in the topic “*Pharmacological Benefits of *Eleutherococcus senticosu**” 1st Edition; Vol (1); 2021 Chapter – 6, Page: 58 – 66.
- B. Sindhuja, **J. Rengaramanujam** and J. Devakumar Contributed a chapter in the book *Therapeutic Applications of Potential herbs* in the topic “*Therapeutic Applications of *Achillea millefolium**” 1st Edition; Vol (1); 2021 Chapter – 6, Page: 144– 149.

- S. Senthil Prabhu, R. Sathish Kumar and **J. Rengaramanujam** Contributed a chapter in the book Advances in Novel Aspects on Pharmaceutical Research in the topic “Molecular Docking of Secondary Metabolites from Lichens Targeting SarsCoV-2 Main Protease (Mpro) and Spike Protein Receptors” Vol (7); 2023 Chapter-5, Page: 76-89.

Gene Bank Submissions

- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Staphylococcus sp. MSK 2 16S ribosomal RNA gene, partial sequence. JX495946.
- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Bacillus sp. MSK 3, 16S ribosomal RNA gene, partial sequence. JX495947.
- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Brevundimonas sp. MSK 4 16S ribosomal RNA gene, partial sequence. JX495948.
- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Bacillus sp. SMK 5, 16S ribosomal RNA gene, partial sequence. JX495949.
- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Staphylococcus sp. SMK 6, 16S ribosomal RNA gene, partial sequence. JX495950.
- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Bacillus sp. SMK 7, 16S ribosomal RNA gene, partial sequence. JX495951.
- Sudha,S.S., Karthic,R., Sowmya,T., Francis,M., **Rengaramanujam,J.** and Senthil Prabhu,S. Brevundimonas sp. SMK 8, 16S ribosomal RNA gene, partial sequence. JX495952.

Presentations in Conference

- II Annual Conference of the Indian association of Applied Microbiologists held on 21st & 22th December 2002 at Presidency College (Autonomous), Chennai.

- National Seminar on “Advancement in Biosciences”, held on 3rd&4th October 2003 at SNMV College of Arts and Science (Autonomous), Coimbatore
- National Conference on Recent Trends in Microbial Biotechnology, held on 11th&12th March 2004 at SASTRA University, Thanjavur.
- Presented a Paper in National Seminar on “Emerging Trends in Microbial Biotechnology” held at Kanchi Shri Krishna College of Arts and Science, Kanchipuram on 20-Feb-13 to 21-Feb-13.
- Presented a paper in National Conference on “Advances in Science and Technology- PSG SCITECH-14” at PSG College of Arts and Science, Coimbatore on 12-Sep-14 to 13-Sep-14.
- “Invitro cytotoxicity evaluation of alpha amylase from aloevera associated fungi” in 16th National Conference of Indian association of Applied Microbiologists (IAAM) on Human Microbiome in personal medicine-Bridging Humans & Microbes for future sustainability held at JSS academy of higher education and research, Mysuru, Karnataka on 27-Sep-18 to 28-Sep-18.
- Presented a paper on “Antimicrobial Activity of *Citrus hystrix* against *Acinetobacter baumannii*” in International Conference on Current Trends in Advanced Biomedical Technology (CTAB-2019) held on 24th and 25th January, 2019 at Nehru arts and Science College, Coimbatore.

Participation in Conference

International:

- International Conference on “Spiritual Wisdom for a Value- Based Society”, held on 6th&7th November, 2004 at Annamalai University, Chidambaram.
- International Seminar on “Inculcating Innovations- Biozenith”, held on 6th March 2009 at Dr. N.G.P. Arts and Science College, Coimbatore.

- International conference on Current trends in Advanced Biomedical Technology organized by Department of Bioscience, Nehru Arts and Science College, Coimbatore, on 24-Jan-19 to 25- Jan-19.
- Participated in International conference on Indian Rural Public health and Non-Communicable Diseases held on 6th April, 2019 at KMCH Research Foundation, Coimbatore.

National:

- State level Conference on “Sustainable Trends in Biosciences”, held on 24th September 2004 at Marudhupandiyar College, Thanjavur.
- “National Cancer Congress: Genetics, Diagnosis and Therapy” held on 20th and 21st August, 2009 at Dr. N.G.P. Arts and Science College, Coimbatore.
- “National Conference on Advance Trends in Biotechnology- Marina’2009” held on 18th and 19st December, 2009 at Dr. N.G.P. Arts and Science College, Coimbatore.
- National Conference MARINA’10 on Recent Trends in Biotechnology held on 30th Sep. and 1st October 2010 at Dr. N.G.P. Arts and Science College, Coimbatore.
- “National Conference on Issues in Higher Education” held on 29th October 2010 at Dr. N.G.P. Arts and Science College, Coimbatore.
- National Level Conference on “The Role of Informed Consent in Clinical decisions and Research in Hospitals” held on 26th August 2011 at Dr. N.G.P. Arts and Science College, Coimbatore.
- NAAC sponsored Two Day State Level Conference on “Achieving Academic Excellence through Internal Quality Assurance Cell (IQAC)” held on 9th & 10th December 2011 at Dr. N.G.P. Arts and Science College, Coimbatore.
- National Level Conference on “Perspectives of Biotechnology for Healthcare Development” held on 29th & 30th December 2011 at Dr. N.G.P. Arts and Science College, Coimbatore.
- National conference on Emerging Trends in Herbal Research and Cancer Therapy organized by KMCH college of Pharmacy, Coimbatore, on 26-Jun-12.

- National Conference on Bio-Medical Waste Management at Dr. N.G.P. Arts and Science College, Coimbatore on 28-Sep-12.
- IAAM National Conference on Exploring the Potentials of Microbes for Bioscience, Biotechnology and Medicine at SRM University, Chennai on 17 & 18-Dec-12.
- National level conference on "Recent Trends in Medicinal Plants and Their Products" at Dr. N.G.P. Arts and Science College, Coimbatore on 18-Sep-13.
- Acted as Judge for Poster Presentation in national Conference on "Biotechnology-Present and Future" at Dr. N.G.P. Arts and Science College, Coimbatore on 26-Sep-13 to 27-Sep-13.
- National Conference on Emerging Education Models for 21st Century Learner (NCEEM-2015) at Dr. N.G.P. Arts and Science College, Coimbatore on 1-Aug-15.
- National Conference of Sustainability, Challenges and Advances in Biological Sciences at Muthayammal College of Arts and Science, Rasipuram, Namakkal, Tamil Nadu on 18-Dec-15 to 19-Dec-15.
- Participated in DBT sponsored National conference on "Changing Disease Profile: Challenges facing Basic and Translational Research in India" Genomics and proteomics in Bioprospecting-Role in Healthcare Development held on 5th and 6th October, 2016 at Dr. N.G.P. Arts and Science College, Coimbatore.
- Two-day ICMR sponsored National symposium on Infectious Diseases on 8-Aug-08 to 9-Aug-08.
- One day seminar on Bioscience "A sustainable virtue" on 24-Feb-09.
- Two-day ICMR & CSIR sponsored National symposium on Drug resistance and Drug discovery on 9-Sep-09 to 10-Sep-09.
- Two-day ICMR & CSIR, DRDO Sponsored National symposium on Communicable Diseases and Its control measures 4-Aug-10 to 5-Aug-10
- Two-day ICMR & CSIR, DRDO and DST Sponsored National symposium on Biopharmaceuticals and Their Applications in Disease prevention and health promotion 4-Aug-11 to 5-Aug-11.

- International symposium on the topic harnessing microbes for Human health and Resource Recuperation. ISHM 2012 and successfully conducted on 7-Aug-12 to 8-Aug-12.
- One day National symposium Perception of Microorganisms in human health and environment on 22-Aug-13.
- Organizing Member in National Symposium on “Causatives and Curatives in Infectious Diseases-CCID 2015” at Dr. N.G.P. Arts and Science College, Coimbatore on 19-Aug-2015.
- Organizing Member in 10th Louis Pasteur memorial National Symposium on “Nanotechnology in Drug Delivery- A tool for biology and Medicine” at Dr. N.G.P. Arts and Science College, Coimbatore on 15-Sep-17.
- International Symposium on “Public Health Emergency and Disaster Management” at Hindusthan College of Arts and science, Coimbatore, 3-Nov-15.

Participation in Seminars

- National Level Seminar on “Modern Scenario in Nanomedicine”-Biozenith, 2011 held on 22nd September 2011 at Dr. N.G.P. Arts and Science College, Coimbatore.
- National seminar on “Biodiversity products and Industrial Applications” (BPIA-2015) at Periyar University, Salem, 28-Sep to 29-Sep-15.
- National Level Seminar on Frontier Research in Applied Biology and Environmental sciences at King Nandhivarman College of Arts and Science, Thellar, Tamil Nadu 30-Jan-16.
- Participated in a NAAC sponsored two-day National Seminar on Curriculum Designing and Skill Based Education-Opportunities and Challenges held on 16th and 17th February, 2017 at Ayya Nadar Janaki Ammal College, Sivakasi.
- NAAC sponsored national seminar on People Management for Quality Enhancement in Higher Education at Bharathiar University, Coimbatore, 29-Jul-13 to 30-Jul-13.

Participation in Workshop

- Attended a workshop on “Techniques in experimental and Clinical Immunology” in department of biochemistry, St Joseph’s College, Thiruchy on 25&26th Feb, 2004.
- Workshop on “Recent Trends in Biological sciences”, held on 23rd September 2004 at Marudhupandiyar College, Thanjavur.
- Workshop on “Motivation, Counselling and Commitment in Teaching Profession” on 10th June, 2006 held at Dr. N.G.P. College of Education, Coimbatore.
- Attended hands on workshop on SPSS organized by Centre for Research and Development, Dr. N.G.P. Arts and Science College, Coimbatore on 13th March, 2010.
- Science Academies workshop on Interdisciplinary Approach of Research in Life Sciences at PSGR Krishnammal College for Women, Coimbatore, 19 & 20-Dec-14.
- Participated in a Workshop organized by Center for Research on the title “Analysis of Spectral Data” on 1st Jan., 2017 at Dr. N.G.P. Arts and Science College, Coimbatore.
- National Workshop on Data Analytics and its application in Biotechnology organized by Department of Computer Technology and Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore, 14-Feb-19 to 15-Feb-19.
- Chaired a session in National workshop on Data Analytics and its applications in Biotechnology held on 14th and 15th February, 2019 at Dr. N.G.P. Arts and Science College, Coimbatore.
- Professional development workshop on Digital Creative Skills as a part of Adobe Academic Essential Program, 2023
- National level Workshop cum Training programme on Polymerase Chain Reaction (PCR) by National Institute of Food Technology, Entrepreneurship and Management, Thanjavur, 04-Aug-2023.
- HACCP Level 3 (Hazard Analysis and critical control Point) Certificate course by AVT Academy, September 2023

Participation in Faculty Development Programme

- FDP on “Quality Measures in Higher Education” at Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu, from 3-Dec-18to 9-Dec-18.
- FDP on “Quality Initiatives in Higher education” at Dr.N.G.P. Arts and Science College, Coimbatore, Tamil Nadu, 13-Apr-20to 20-Apr-20.
- FDP on Digital Teaching Techniques, ICT Academy, 10th to 15th Aug., 2020.
- FDP on Educational Management and leadership for Sustainable Environment” at CALEM, Panjab University, Chandigarh from 10th Dec to 30th Dec, 2020.
- University Distinguished Lecture on “Art of Science in the Time of Virus and Beyond:The Brave New World” at SRM University, Chennai on 5th December, 2020
- ATAL FDP on “Technology Management” at Dr. B. R. Ambedhkar National Institiute of Technology from 4-Jan-21to 8-Jan-21.
- FDP on “Research Methodology and Pedagogy for Tertiary Education” at Dr.N.G.P. Arts and Science College, Coimbatore, Tamil Nadu, from 15-June-21to 21-June-21.
- ATAL FDP on “Drug Engineering through Bioprospecting” at Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu, from 12-Jul-21to 16-Jul-21.
- NPTEL online FDP on Accreditation and Outcome based Learning, Aug-Oct, 2022
- UGC approved short term Professional Development Programme on ‘Implementation of NEP-2020 for University and College Teachers’ conducted by IGNOU, Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching held from November 18-26, 2022 and obtained 'A+' Grade
- NPTEL online FDP on Educational Leadership from Aug-Oct, 2024
- 14 days Faculty Training programme on Recent Advances in Molecular Biology and Biotechnology organized by Rubber Research Institute of India, Kottayam, as part of DBT- Skill Vigyan Programme – Kerala under Kerala Biotechnology Commission, KSCSTE and DBT, Government of India, 06th to 19th March, 2024.

Conference / Seminar / Workshop Organized

- Member of Workshop on Recent Trends in Biological Sciences at Maruthupandiyar College, Thanjavur on 23-Sep-04.
- Member of State level Conference on Sustainable Trends In Biosciences, at Marudhupandiyar College, Thanjavur on 24-Sep-04.
- Member of Leptospirosis- Infection Management Programme (LIMP), Leptospirosis an Awareness Campaign among Municipal Workers from 12-Jun-09 to 28-Jul-09 in and around Coimbatore sponsored by TNSSTC.
- One day workshop on Techniques in Microbiology for School Teachers on 1-Nov-06.
- One day workshop on Biodiversity-Nurture Nature for our future for school teacher guides in association with Tamil Nadu Science Forum and Department of Science and Technology on 9-Aug-07.
- One-day project presentation by school students. This programme has been organized as part of the 15th NCSC on 26-Oct-07.
- ICMR sponsored National symposium on Infectious Diseases, 8 to 9-Aug-08.
- One-day seminar on Bioscience “A sustainable virtue” on 24-Feb-09.
- Two-day ICMR & CSIR sponsored National symposium on Drug resistance and Drug discovery on 9-Sep-09 to 10-Sep-09.
- Two-day ICMR & CSIR, DRDO Sponsored National symposium on Communicable Diseases and Its control measures 4-Aug-10 to 5- Aug-10
- Two-day ICMR & CSIR, DRDO and DST Sponsored National symposium on Biopharmaceuticals and Their Applications in Disease prevention and health promotion 4-Aug-11 to 5-Aug-11.
- Member of Science Expo 2011 conducted at Dr. N.G.P. Arts and science College, Coimbatore from 27-Sep-11 to 29-Sep-11.
- International symposium on the topic harnessing microbes for Human health and Resource Recuperation. ISHM 2012 and successfully conducted on 7th and 8th August 2012.

- National Symposium on “Perception of Microbes in Human Health and Environment- PSPM” at 22nd August 2013 at Dr. N.G.P. Arts and Science College, Coimbatore.
- Organizing Member in National Symposium on “Causatives and Curatives in Infectious Diseases-CCID 2015” at Dr. N.G.P. Arts and Science College, Coimbatore on 19-Aug-15.
- Organizing Member in 14th National Conference of IAAM on Transitional and Translational Scenarios in Biological Sciences, (3 I’s *In vitro* to *In vivo* to *In silico*,) 9-Sep-16 to 10- Sep-16.
- Organizing Member in 10th Louis Pasteur memorial National Symposium on “Nanotechnology in Drug Delivery- A tool for biology and Medicine” at Dr. N.G.P. Arts and Science College, Coimbatore on 15-Sep-17.
- Organizing Member of DST and DAAD sponsored International Workshop on Health Risk assessment of Nano particles from 5th -7th Dec, 2018 at Dr. N.G.P. Arts and Science College, Coimbatore
- Convener in National Seminar on Biodiversity and its Prospecting (NSBP-19) held on 28th February, 2019 organized by Department of Biotechnology and Microbiology at Dr. N.G.P. Arts and Science College, Coimbatore.
- Convener for National Workshop on Intellectual Property Rights from 15th -16th Feb, 2019 at Dr. N.G.P. Arts and Science College, Coimbatore
- Convener for National symposium for Graduate Research at Dr. N.G.P. Arts and Science College, Coimbatore on 26th and 27th Feb 2019.
- Convener for National symposium for Graduate Research at Dr. N.G.P. Arts and Science College, Coimbatore on 21st and 22nd Feb 2020.
- Convener for DBT sponsored SERB sponsored National Seminar on “Computing Platforms for Biological Big data Analytics” at Dr. N.G.P. Arts and Science College, Coimbatore on 5th & 6th Feb 2020.
- Convener for National Conference on "Futuristic Approaches in Transformation of Biological Research-FATBR-2020”, organized by Faculty of Biosciences,

Department of Microbiology Dr. N.G.P. Arts and Science College, Coimbatore on 6th and 7th March, 2020.

- Convenor, International Seminar on “Perspectives of nanotechnology in medical applications’, 27th Nov-2021, Department of Microbiology, Dr. N.G.P. Arts and Science College.
- Convenor, XIV Louis Pasteur International Symposium on the Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD—2023), 9th & 10th March, 2023, Department of Microbiology, Dr. N.G.P. Arts and Science College.
- Organizing Secretary, National Conference on Interdisciplinary Approaches on Dynamic of Bioscience Research (IADBR-2023), 28th March 2023, Under DBT Star Scheme, Department of Biosciences, Dr. N.G.P. Arts and Science College.
- Convenor, Hands-on Training on Basic & Advanced Microscopic Techniques and Microbial Culture Techniques for Higher Secondary Biology Students, Under DBT Star College Scheme, Department of Microbiology, Dr. N.G.P. Arts and Science College.
- Convener for National Symposium on "Microbial Prospecting and Entrepreneurship-MPE 2023", organized by Department of Microbiology Dr. N.G.P. Arts and Science College, Coimbatore on 22nd September, 2023.
- Convener for SERB sponsored XVI Louis Pasteur National Seminar on "Novel Diagnostic and Drug Development Strategies for Infectious Diseases NDID 2024", organized by Department of Microbiology Dr. N.G.P. Arts and Science College, Coimbatore on 22nd & 23rd February, 2024.

Invited Speaker / Session Chair / Member Organizing Committee

- Delivered a talk on “**Training on Fitness and Health**” in Dr. N.G.P. College of Education, Coimbatore, 7-Jan-13

- Delivered a talk on **“Objectives of National Youth Policy and Sustainable Development Goals”** in the Youth Led sustainable development program in higher educational institutions sponsored by Ministry of Youth Affairs and Sports at Dr. N.G.P. Arts and Science College, College, Coimbatore, 15-Feb-16 to 16-Feb-16.
- Delivered a talk on **“Microbes that Marshal World”** in RVS College of Arts and Science, Coimbatore, 30-Aug-16.
- Session Chair, International conference on **“Prospects of Nutraceuticals and Natural Medicine”** held on 25th February, 2019 at Dr. N.G.P. Arts and Science College, Coimbatore.
- Delivered a talk on **“Antimicrobial resistance and one Health”** in the International Colloquium at Srinivasan College of Arts and Science, Perambalur, on 9th July 2021.
- Delivered a talk on **“Global Impact of Pan Drug Resistance”** in the Students Skill Development Program organized by VHNSN College, Virudhunagar, Tamil Nadu from 25th Aug to 27th Aug, 2021.
- Delivered a talk on **“Role of Life Style in Human Well Being”** for a seminar conducted in Park’s College, Tirupur, Tamil Nadu, India on 24th March, 2023.
- Delivered a talk on **“Role of Biotechnology in One Health Approach”** for a lecture workshop on perspectives of Biotechnology in Microbial Exploration in Acharaya arts and Science College, Villianur, Puducherry on 12th February, 2024.
- Delivered a talk on **“Autoimmunity a Global concern”** for an invited lecture in Acharaya arts and Science College, Villianur, Puducherry on 12th February, 2024.

Member in BoS

- 2015-2018, PG Board of studies, Microbiology, Bharathiar University, Coimbatore
- 2016-2019, Board of studies, Microbiology, RVS College of Arts and Science, Suler, Coimbatore, Tamil Nadu.
- 2022 onwards, Board of studies, Microbiology, in RVS CAS, Suler, Coimbatore, Tamil Nadu.

Online Certificate Programs

- Certificate on Cell Culture Technologies, NPTEL, Feb-Apr, 2020.
- Certificate on Accreditation and Outcome based Learning, NPTEL, Aug-Oct, 2022
- Mind Control: Managing your mental health during COVID 19, University of Toronto, Course Era.
- Certificate on Educational Leadership, NPTEL, Aug-Oct, 2023.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Life member in Indian Association of Applied Microbiologist	Life-time	-
External Expert for Academic audit conducted at Nehru Arts and Science College, Coimbatore		
Subject Expert Member in Institutional Animal Ethical Committee (IAEC) in KMCH College of Pharmacy	-	2018-Till Date
Review member in South Asian Journal of Biological Science	Life time	2013
Review member in Physical sciences Reviews	Life time	2021

Awards / Honors

Awards / Honors	Agency / Institute	Year
Best Head of the Department	Dr. N. G.P. Arts and Science College, Coimbatore	2020

Recognition - National / International

Nature of Recognition	Organization / Institution	Year
INSA Summer Research fellowship	Indian national Science Academies	2017

Others (Administrative/Academic Roles)

- Coordinator of Center for Student Affairs
- Discipline Committee Coordinator
- Anti-ragging committee Member
- Member of examination Reforms committee
- Was a Senate member of Bharathiar University
- Acted as Member and Coordinator of Admission Committee
- Acted as department DBT Star program coordinator
- Has acted as member and coordinator of Sports committee
- Was convener for 60/60 programme and Boys club
- Acted as member in college functions committee and fine arts
- Was Co-Ordinator for M.Sc., Medical Physics (2012-2013) program
- Has acted as NAAC Criterion IV Manager
- Has acted as coordinator for Parent Teachers Association (2021-22)
- Was coordinator for Center for Academic Career Development
- Editor -Proceedings (ISBN) of the DST- SERB sponsored XVI Louis Pasteur National Seminar on “Novel Diagnostic and Drug Development Strategies for Infectious Diseases (NDID-2024)
- Editor - Conference Proceeding (ISBN) - ICMR and DBT Sponsored 14th National Conference of Indian Association of Applied Microbiologists on Transitional and Translational Scenarios in Biological Sciences -2016.
- Editor -DBT Star-Bulletin and DBT Science Bulletin (ISBN) (2018-19 & 2019-20)
- Editor -Abstract books- DBT, ICMR Sponsored International Symposium on Harnessing Microbes for Human Health and Resource Recuperation (ISHM-2012)
- Sub Editor - Robert Koch Memorial Microbiology News Letter, Dr. N.G.P. Arts and Science College, (2009, 2010-11, 2012-13, 2013-14 & 2014-15).