

Name : Dr. J. Rengaramanujam
Designation : Professor and Head
Department : Microbiology
Qualification : M.Sc., M.Phil., PGDBI., Ph.D., SET., NET(CSIR).
Experience : Teaching: 17 Years Research: 7 Years
Area of Specialization(s) : **Medical Microbiology and Bioprospecting**
Email (Official ID) : drrengaramanujam@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
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

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
PGDBI	Bioinformatics	Bharathidasan University	2006
TNSET	Microbiology	UGC	2016
NET(CSIR)	Microbiology	UGC	2018

Projects

Completed

Project Title	Agency	Amount	Duration
Investigation on crude and bioactive compounds form marine microalgae for preventing coronary heart disease	UGC Major Research Project	Rs.10,23,700/-	2010-2012

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 - <i>In vitro</i> to <i>In vivo</i> to <i>In silico</i>), Conference proceedings. 1; 152-161 (2016).	TNSCST	Rs.10,000	2016-2017
Hazardous Parthenium weed compost and pseudomonas fluorescens- A potential growth enhancer and immunostimulant for plants(Tomato)	UGC Minor project	Rs.1,15,000	Completed

Research Guidance

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

Research Publications (Indexed)

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.microbiol.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**, *Intnl.J.Currr.microbiol.App.Sci.* 2(8); 347-358 (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.

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**, *S 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).
- 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).
- 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).

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.

Consultancy

Nature of Consultancy	Client	Amount	Completion Status
Fundamental Training in Microbiology	III B.Sc., Zoology, P.S.G.R.Krishnammal College for Women.	Rs.18,500/-	<i>Completed</i>
Antibacterial assay	CDF, DR.N.G.P.ASC	Rs. 2,000	<i>Completed</i>
Antibacterial assay	PSGR Krishnammal College for Women	Rs, 1,250	<i>Completed</i>

Presentations in Conference

- “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 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.

Participation in Conference

International:

- 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.

National:

- 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-Dec-12 to 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, Tamilnadu on 18-Dec-15 to 19-Dec-15.
- 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 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, Tamilnadu 30-Jan-16.
- NAAC sponsored national seminar on People Management for Quality Enhancement in Higher Education at Bharathiar University, Coimbatore, 29-Jul-13to 30-Ju-13.

Participation in Workshop

- Science Academies workshop on Interdisciplinary Approach of Research in Life Sciences at PSGR Krishnammal College for Women, Coimbatore, 19-Dec-14 to 20-Dec-14.
- 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 .

Participation in Faculty Development Programme

- FDP on “Quality Measures in Higher Education” at Dr.N.G.P. Arts and Science College, Coimbatore, Tamilnadu, from 3-Dec-18to 9-Dec-18.
- FDP on “Research Methodology and Pedagogy for Tertiary Education” at Dr.N.G.P. Arts and Science College, Coimbatore, Tamilnadu, from 15-June-21to 21-June-21.
- FDP on “Quality Initiatives in Higher education” at Dr.N.G.P. Arts and Science College, Coimbatore, Tamilnadu, 13-Apr-20 to 20-Apr-20.
- ATAL FDP on “Technology Management” at Dr.B R Ambedhkar National Institiute of Technologyfrom 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, Tamilnadu, from 15-June-21to 21-June-21.

- ATAL FDP on “Drug Engineering through Bioprospecting” at Dr.N.G.P. Arts and Science College, Coimbatore, Tamilnadu, from 12-Jul-21to 16-Jul-21.

Conference / Seminar / Workshop Organized

- Has been member of Workshop on Recent Trends in Biological Sciences at Maruthupandiyar College, Thanjavur on 23-Sep-04.
- Has been member of State level Conference on Sustainable Trends In Biosciences, at Marudhupandiyar College, Thanjavur on 24-Sep-04.
- Has been 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 TNSTC.
- 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.
- 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.
- 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.
- 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-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 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 7 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.

Invited Speaker / Session Chair / Member Organizing Committee - Conference / Seminar / Workshop

- 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, 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.
- 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 “**Antimicrobial resistance and one Health**” in the International Colloquium organized by Srinivasan College of Arts and Science, Perambalur, Tamilnadu, India 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, Tamilnadu, India from 25th Aug to 27th Aug, 2021.

Member in Bos

- Served as Member, PG Board of studies, Microbiology, Bharathiar University, Coimbatore-46, Tamil Nadu, India, 2015-2018
- Served as Member, Board of studies, Microbiology, in RVS CAS, Sulur, Coimbatore, Tamil Nadu, India, 2016-2019

Online Certificate Programs

- Digital teaching Techniques, by ICT Academy, from 10th to 15th August 2020.
- NPTEL online certificate course on Cell Culture Technologies from Feb-Apr, 2020
- Mind Control: Managing your mental Health during COVID 19 offered by University of Toronto, Course Era

Editorial / Review Board Member/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	Three Years	2018-2020
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 of Award
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