

Dr. J. RAJENDHRAN

ASSISTANT PROFESSOR

Department of Genetics
School of Biological Sciences



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Educational Qualifications : M.Sc., M.Phil., Ph.D

Professional Experience : Teaching: 11 years, Research: 17 years

FIELD OF SPECIALIZATION

- Microbiology
- Genetics
- Genomics

RESEARCH SPECIALIZATION

- Microbial Genomics
- Metagenomics
- Human Microbiomics
- Host-Pathogen Interactions

Research Supervision:

Program	Completed	Ongoing
Ph.D	4	6
M.Phil	--	--

PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1	Department of Genetics, School of Biological Sciences, Madurai Kamaraj University, Madurai, India.	Assistant Professor	18/10/20 10	Till date	7 Years and 5 Months
2	Department of Cellular, Molecular & Developmental Biology, Yale University, New Haven, USA	Post-Doctoral Fellow	01.10.20 13	31.03. 2014	6 Months
3	UGC-NRCBS, SBS, Madurai Kamaraj University, Madurai,	Lecturer	02/03/ 2009	18/10 /2010	1 Year & 7 Months
4	Department of Genetics, SBS Madurai Kamaraj University, Madurai, India.	Research Fellow (JRF, SRF & RA)	12/04/ 2001	02//0 3/200 9	8 Years
5	P.K.N. Arts and Science College, Tirumangalam, Madurai, India.	Lecturer	05/06/1 999	12/04 /2001	2 Years

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Prof. Jo. Handelsman	Wisconsin Institute for Discovery, Madison Wisconsin, USA	Collaborator for ASM-Indo-US Resaerch Professorship	Research
Prof. Tetsuya Iida	Osaka University, Osaka, Japan	Collaborator for DST-JSPS Program	Research
Prof. K. Chandraraj	Indian Institute of Technology Madras (IITM), Chennai	DBT- Collabotrive project on keratinases	Research

Dr. Anshuman	National Environmental Engineering Resaerch Institute (NEERI), Nagpur		
Dr. Parimal Roy Dr. (Mrs.) Rajeswari Shome Dr. M. Nagalingam	National Institute for Veterinary Epidemiology and Disease Informatics (NIVEDI), Bangalore	DBT-Network Project on Brucellosis	Joint Publications
Dr. Pallab Chaudhuri Dr. DK. Singh	Indian Veterinary Research Institute Izatnagar, Bareilly-234122, UP		
Dr. Bharat Singh Chandel	Sardarkrushinagar Dantiwada Agricultural University Sardarkrushinagar, Palanpur-385506, Gujarat		
Dr. Girindra Kumar Saikia	Assam Agricultural University, Khanapara Guwahati-781022, Assam		
Dr. Ingudam Shakuntala	ICAR Research Complex for North East Hill Region Umiam-793103, Meghalaya		
Prof. NS. Sharma Dr. JPS. Gill	Guru Angad Dev Veterinary and Animal Sciences University		

	Ludhiana – 141 004, Punjab		
Dr. Nitin Kurkure	Nagpur Veterinary College Maharashtra Animal and Fishery Science University Nagpur- 440006, Maharashtra		
Prof. Rakesh Bhatnagar	Jawaharlal Nehru University New Delhi – 110067		
Dr. Rathnagiri Polavarapu	Genomix Molecular Diagnosis (P) Ltd. Hyderabad -500 033		
Dr. Nagendra R. Hegde	National Institute of Animal Biotechnology (NIAB), Hyderabad, 500 049	DBT- Collaborative Project on Staphylococcus	Research
Prof. Shrikrishna Isloor	Karnataka Veterinary University, Bangaluru		

COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1.	Production and improvement of bacterial keratinase and Demonstration of feather waste management by keratin hydrolyzing bacteria at pilot scale	DBT	26.7 Lakhs	2012-16
2.	Pathogenomics of human listeriosis: Development of rapid diagnostic assays for the identification of virulent strains of <i>Listeria monocytogenes</i> , University Grants Commission	UGC	10.15 Lakhs	2012-15
3.	Circulating Human Microbiome and Cardiovascular Diseases, Department of Biotechnology	DBT	40.98 Lakhs	2010-13
4.	Marine Metagenomics – Antimicrobial Drug Development from Marine and Estuarine Metagenome	DST	17.88 Lakhs	2008-11

ON-GOING RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1	Molecular epidemiology and genomics of mastitis-associated staphylococci	DBT	30.2 Lakhs	2017-19
2	Network Project on Brucellosis, Department of Biotechnology (DBT), India	DBT	186.07 Lakhs	2012-18

HONORS/AWARDS/RECOGNITIONS

1. **ASM Indo-US Research Professor**, American Society for Microbiology - 2018
2. **Travel Grant Award from Osaka University**, Japan - 2017
3. **SBS-MKU Genomics Award** - Biotech Research Society, India (BRSI) - 2014
4. **UGC-Raman Fellowship for Post Doctoral Research in USA**, UGC - 2013
5. **Young Scientist Award** - Association of Microbiologists of India (AMI) – 2007.
6. **Best Oral Presentation Award** – Origene 2007, International Conference on Recent Trends in Biotechnology, Kalasalingam University, Krishnankoil, India. 5-6th January 2007.
7. **SRF-2004** (Senior Research Fellowship by Council of Scientific and Industrial Research, New Delhi, India)
8. **SLET-1999** (State Level Educational Test for lectureship, Bharathidasan University, Tiruchirapalli, India)
9. **GATE -1998** (Graduate Aptitude Test in Engineering)
10. **M. Phil academic prize** – 1998 for proficiency in Research Methodology, The American College, Madurai, India.
11. **A. K. R. Thilagar prize** – 1997 for proficiency in Immunology, The American College, Madurai, India.

PUBLICATIONS

1. Jayashree S, Karthikeyan R, Nithyalakshmi S, Ranjani J, Gunasekaran P and **Rajendhran J** (2018) Anti-adhesion property of the potential probiotic strain *Lactobacillus fermentum* 8711 against methicillin-resistant *Staphylococcus aureus* (MRSA). *Frontiers in Microbiology* 9: 411. (IF: 4.07)
2. Dhivya R, Ranjani J, **Rajendhran J**, Mayandi J and Annaraj J (2018) pH triggered curcumin release from PMMA-AA coated ZnO nanoparticles for excellent anti-gastric cancer therapy. *Journal of Material Science and Engineering*. 7: 1.
3. Rathy R, Paul S, Ponesakki V, Kanniah P, Muthu SP, Arumugaperumal A, Emmanuel Joshua Jebasingh Sathiya Balasingh Thangapandi EJJSB, Balakrishnan S, **Rajendhran J**, Sivasubramaniam S (2018) Data on genome sequencing, analysis and annotation of a pathogenic *Bacillus cereus* 062011msu. *Data in Brief* 17: 15-23.
4. Dhivya R, Ranjani J, **Rajendhran J**, Mayandi J and Annaraj J (2018) Enhancing the anti-gastric cancer activity of curcumin with biocompatible and pH sensitive PMMA-AA/ZnO nanoparticles. *Materials Science and Engineering: C* 82: 182-189 (IF: 4.16)
5. Sankarasubramanian J, Vishnu US, Gunasekaran P and **Rajendhran J** (2017) Identification of genetic variants of *Brucella* spp. through genome-wide association studies. *Infection, Genetics and Evolution* 56: 92-98 (IF: 2.88)
6. Vishnu US, Sankarasubramanian J, Gunasekaran P and **Rajendhran J** (2017) Identification of potential antigens from non-classically secreted proteins and designing novel multipeptide vaccine candidate against *Brucella melitensis* through reverse vaccinology and immunoinformatics approach. *Infection, Genetics and Evolution* 55: 151-158 (IF: 2.88)

7. Anusha S, Rekha B, Ramasamy S, **Rajendhran J** (2017) Cardiac Mitochondrial Dynamics: miR-mediated regulation during cardiac injury. *Journal of Molecular and Cellular Cardiology* **10**: 26-34 (IF: 5.68)
8. Dhivya R, Ranjani J, Bowen PK, **Rajendhran J**, Mayandi J and Annaraj J (2017) Biocompatible curcumin loaded PMMA-PEG/ZnO nanocomposite induce apoptosis and cytotoxicity in human gastric cancer cells. *Materials Science and Engineering: C* **80**: 59–68 (IF: 4.16)
9. Velmurugan G, Ramprasath T, Swaminathan K, Mithieux G, **Rajendhran J**, Dhivakar M Ramasamy S (2017) Gut microbial degradation of organophosphate insecticides-induces glucose intolerance via gluconeogenesis. *Genome Biology* **18**: 8 (IF: 11.90)
10. Vishnu US, Sankarasubramanian J, Gunasekaran P and **Rajendhran J** (2017) Identification of OtpR regulated sRNAs in *Brucella melitensis* expressed under acidic stress and their roles in pathogenesis and metabolism. *Comparative Immunology, Microbiology & Infectious Diseases* **50**: 40–47 (IF: 1.87)
11. Rajan KS, Ramasamy S, George-William JN and Rajendhran J (2017) Emerging cardiac non-coding landscape: the importance of meta-analysis. *Biochimie* **133**: 87-94 (IF: 3.11)
12. Vishnu US, Sankarasubramanian J, Sridhar J, Gunasekaran P and **Rajendhran J** (2016) “Omics” of *Brucella*: Species specific sRNA-mediated gene ontology regulatory networks identified by computational biology. *OMICS: A Journal of Integrative Biology* **20**: 375-85 (IF: 2.72)
13. Sankarasubramanian J, Vishnu US, Khader LKMA, Sridhar J Gunasekaran P and **Rajendhran J** (2016) BrucellaBase: Genome information resource. *Infection, Genetics and Evolution* **43**: 38-42 (IF: 2.88)
14. Pushpanathan M, Pooja S, Gunasekaran P and **Rajendhran J** (2016) Critical Evaluation and compilation of physicochemical determinants and membrane interactions of MMGP1 antifungal peptide. *Molecular Pharmaceutics* **13**: 1656-1667 (IF: 4.44)
15. Sankarasubramanian J, Vishnu US, Gunasekaran P and **Rajendhran J** (2016) A genome-wide SNP-based phylogenetic analysis distinguishes different biovars of *Brucella suis*. *Infection, Genetics and Evolution* **41**: 213-217 (IF: 2.88)
16. Gupta P, Manjula A, **Rajendhran J**, Gunasekaran P and Vakhlu J (2016) Comparison of metagenomic DNA extraction methods for soil sediments of high elevation Puga hot spring in Ladakh, India to explore bacterial diversity. *Geomicrobiology Journal* **4**: 289–299 (IF: 1.48)
17. Shome R, Krithiga N, Padmashree B, Shankaranarayana, Sankarasubramanian J, Vishnu US, Shome BR, Saikia GK, Sharma NK, Chauhan H, Chandel BS, **Rajendhran J**, Rahman H (2016) Genotyping of Indian antigenic, vaccine and field *Brucella* sp. using multilocus sequence typing. *Journal of Infection in Developing Countries* **10**: 237-244 (IF: 1.35)
18. Kathiresan S, Dhivya R, Vigneshwar M, Rajasekaran M, Ranjani J, **Rajendhran J**, Srinivasan S, Mugesh S, Murugan M, Athappan P and Annaraj J (2016) Biological evaluation of redox stable cisplatin / Cu(II)-DNA adducts as potential anticancer agents. *Journal of Coordination Chemistry* **69**: 238-252 (IF: 1.79)
19. Sankarasubramanian J, Vishnu US, Dinakaran V, Sridhar J, Gunasekaran P and **Rajendhran J** (2016) Computational prediction of secretion systems and secretomes of *Brucella*: identification of novel type IV effectors and their interaction with host. *Molecular Biosystems* **12**: 178 - 190 (IF: 2.78)
20. Manjula A, Pushpanathan M, Sathyavathi S, Gunasekaran P and **Rajendhran J** (2016) Comparative analysis of microbial diversity in termite gut and termite nest using Ion-sequencing. *Current Microbiology* **72**: 267 - 275 (IF: 1.32)
21. Vishnu US, Sankarasubramanian J, Gunasekaran P and **Rajendhran J** (2015) Novel vaccine candidates against *Brucella melitensis* identified through reverse vaccinology approach. *OMICS: A*

Journal of Integrative Biology 19: 722-729 (IF: 2.72)

22. Pooja S, Pushpanathan M, Gunasekaran P and **Rajendhran J** (2015) Endocytosis—mediated invasion and pathogenicity of *Streptococcus agalactiae* in rat cardiomyocyte (H9C2). **PLOS ONE 10**: e0139733 (IF: 2.80)
23. Sharma NS, Sunita T, Arora AK, Mudit C, Kaur P, Sankarasubramanian J, Vishnu US, Gunasekaran P and **Rajendhran J** (2015) Draft genome sequences of two *Brucella abortus* strains isolated from cattle and pig. **Journal of Genomics 3**: 95-96
24. Chaudhuri P, Goswami TTK, Lalsiamthara J, Gurpreet K and Vishnu US, Sankarasubramanian J, Gunasekaran P and **Rajendhran J** (2015) Draft genome sequence of the intermediate rough vaccine strain *Brucella abortus* S19Δper mutant. **Genome Announcements 3**: e01336-15
25. Vishnu US, Sankarasubramanian J, Sridhar J, Gunasekaran P and **Rajendhran J** (2015) Identification of recombination and positively selected genes in *Brucella* **Indian Journal of Microbiology 55**: 384-391. (IF: 1.29)
26. Ranjani J, Pushpanathan M, Mahesh A, Niraimathi M, Gunasekaran P and **Rajendhran J** (2015) *Pseudomonas aeruginosa* PAO1 induces distinct cell death mechanisms in H9C2 cells and its differentiated form. **Journal of Basic Microbiology 55**: 1191–1202 (IF: 1.43)
27. Karthikeyan R, Gunasekaran P and **Rajendhran J** (2015) Molecular serotyping and pathogenic potential of *Listeria monocytogenes* isolated from milk and milk products in Tamil Nadu, India. **Food Borne Pathogens and Diseases 12**: 522-528) (IF: 2.12)
28. Dhivya R, Ranjani J, **Rajendhran J**, Rajasekaran M and Annaraj J (2015) pH responsive curcumin/ZnO nanocomposite for drug delivery. **Advanced Materials Letters 6**: 505-512 (IF:1.90)
29. Singh DK, Kumar A, Tiwari AK, Sankarasubramanian J, Vishnu US, Sridhar J, Gunasekaran P and **Rajendhran J** (2015) Draft genome sequence of *Brucella abortus* virulent strain 544. **Genome Announcements 3**: e00419-15
30. Ramani G, Meera B, **Rajendhran J**, Rao M and Gunasekaran P (2015) Transglycosylating glycoside hydrolase family 1 β-glucosidase from *Penicillium funiculosum* NCL1: heterologous expression in *Escherichia coli* and characterization. **Biochemical Engineering Journal 102**: 6–13 (IF: 2.89)
31. Ramani G, Meera B, Chinnathambi V, **Rajendhran J** and Gunasekaran P (2015) Molecular cloning and expression of thermostable gluco-tolerant β-glucosidase of *Penicillium funiculosum* NCL1 in *Pichia pastoris* and its characterization. **Journal of Industrial Microbiology and Biotechnology 42**: 553-565 (IF: 2.81)
32. Pooja S, Pushpanathan M, Jayashree S, Gunasekaran P and **Rajendhran J** (2015) Identification of periplasmic α-amylase from cow dung metagenome by product induced gene expression profiling (pigex). **Indian Journal of Microbiology 55**: 57–65 (IF: 1.29)
33. Sankarasubramanian J, Vishnu U, Sridhar J, Gunasekaran P and **Rajendhran J** (2015) Pan-genome of *Brucella* species. **Indian Journal of Microbiology 55**: 88–101 (IF: 1.29)
34. Rajendran K, Mahadevan S, **Rajendhran J**, Paramasamy G, Mandal AB (2015) Investigations to enhance production of penicillin G acylase from recombinant *Bacillus badius pac* expressed in *Escherichia coli* DH5α. **Chemical Engineering Communications 202**: 449-456 (IF: 1.29)
35. Dinakaran V, Rathinavel A, Pushpanathan M, Sivakumar R, Gunasekaran P and **Rajendhran J** (2014) Elevated levels of circulating DNA in cardiovascular disease patients: metagenomic profiling of microbiome in the circulation **PLOS ONE 9**: e105221. (IF: 2.80)
36. Jayashree S, Pooja S, Pushpanathan M, **Rajendhran J**, Gunasekaran P (2014) Identification and characterization of bile salt hydrolase genes from the genome of *Lactobacillus fermentum* MTCC

8711. **Applied Biochemistry and Biotechnology** 174: 855-866 (IF: 1.75)
37. Illakkiam D, Shankar M, Ponraj P, **Rajendhran J** and Gunasekaran P (2014) Genome sequencing of a mungbean plant growth promoting strain of *P. aeruginosa* with biocontrol ability. **International Journal of Genomics** 2014: 123058 (IF: 2.40)
38. Ambardar S, Sangwan N, Manjula A, Rajendhran J, Gunasekaran P, Lal R Vakhlu J (2014) Identification of bacteria associated with underground parts of *Crocus sativus* by 16S rRNA gene targeted metagenomic approach. **World Journal of Microbiology and Biotechnology** 30: 2701-2709 (IF: 1.65)
39. Shome R, Krithiga N, Padmashree BS., Sankarasubramanian J, Vishnu US, Sridhar J, Gunasekaran P, **Rajendhran J** and Rahman H, (2014) Draft genome sequence of *Brucella abortus* S99: designated antigenic smooth reference strain used in diagnostic tests in India. **Genome Announcements** 2: e00824-14
40. Sathyavathi S, Manjula A, **Rajendhran J** and Gunasekaran P (2014) Extracellular synthesis and characterization of nickel oxide nanoparticles from *Microbacterium* sp. MRS-1 towards bioremediation of nickel electroplating industrial effluent. **Bioresource Technology** (165: 270–273) (IF: 5.65)
41. Manjula A, Sathyavathi S, Pushpanathan M, Gunasekaran P and **Rajendhran J** (2014) Microbial diversity in termite nest. **Current Science** 106: 1430-1434 (IF: 0.84)
42. Preeti A, Hemalatha D, Mullany P, **Rajendhran J** and Gunasekaran P (2014) Cloning, expression and characterization of a lipase encoding gene from human oral metagenome. **Indian Journal of Microbiology** 54: 284–292 (IF: 1.29)
43. Rajendran K, Sekar S, Mahadevan S, Kumar Shanmugam B, **Rajendhran J**, Paramasamy G, Mandal AB (2014) Biological Real-Time Reaction Calorimeter Studies for the Production of Penicillin G Acylase from *Bacillus badius*. **Applied Biochemistry and Biotechnology** 172: 3736–3747 (IF: 1.75)
44. Krishnan M, Bharathiraja C, Pandiarajan J, Prasanna VA, **Rajendhran J** and Gunasekaran P (2014) Insect gut microbiome - An unexploited reserve for biotechnological application. **Asian Pacific Journal of Tropical Biomedicine** 4(Suppl 1): S16-S21 (IF: 0.92)
45. Illakkiam D, Ponraj P, Shankar M, Muthusubramanian S, **Rajendhran J** and Gunasekaran P (2013) Identification and structure elucidation of a novel antifungal compound produced by *Pseudomonas aeruginosa* PGPR2 against *Macrophomina phaseolina*. **Applied Biochemistry and Biotechnology** 171: 2176-2185 (IF 1.75)
46. Sathyavathi S, Manjula A, **Rajendhran J** and Gunasekaran P (2013) Biosynthesis and characterization of mercury sulphide nanoparticles produced by *Bacillus cereus* MRS-1. **Indian Journal of Experimental Biology** 51: 973-978 (IF: 1.16)
47. Illakkiam D, Anuj NL, Ponraj P, Shankar M, **Rajendhran J** and Gunasekaran P (2013) Proteolytic enzyme mediated antagonistic potential of *Pseudomonas aeruginosa* against *Macrophomina phaseolina*. **Indian Journal of Experimental Biology** 51: 1024-1031 (IF: 1.16)
48. **Rajendhran J**, Shankar M, Dinakaran V, Rathinavel A and Gunasekaran P (2013) Contrasting circulating microbiome in cardiovascular disease patients and healthy individuals. **International Journal of Cardiology** 168:118–5120 (IF 6.18)
49. Shome R, Krithiga N, Muttannagouda RB, Veeregowda BM, Swati S, Shome BR, Vishnu U, Sankarasubramanian J, Sridhar J, Gunasekaran P, Rahman H, **Rajendhran J** (2013) Draft genome sequence of *Brucella melitensis* strain ADMAS-G1, isolated from placental fluids of an aborted goat. **Genome Announcements**. 1: e00809-13
50. Jayashree S, Pooja S, Pushpanathan M, Vishnu U, Sankarasubramanian J, **Rajendhran J**, Gunasekaran

- P (2013) Genome sequence of *Lactobacillus fermentum* strain MTCC 8711, a probiotic bacterium isolated from yogurt. **Genome Announcements**. 1: e00770-13.
51. Karthikeyan R, Surianarayanan M, **Rajendhran J**, Gunasekaran P Asit BM (2013) Strategies for enhancing the production of Penicillin G acylase from *Bacillus badius*: influence of phenyl acetic acid dosage. **Applied Biochemistry and Biotechnology** 171:1328–1338 (IF: 1.75)
 52. Pushpanathan M, Gunasekaran P and **Rajendhran J** (2013) Mechanisms of the antifungal action of marine metagenome-derived peptide, MMGP1, against *Candida albicans*. **PLOS ONE** 8(7): e69316 (IF: 2.80)
 53. Pushpanathan M, **Rajendhran J** and Gunasekaran P (2013) Proteolytic activity of the MMGP1 antifungal peptide derived from marine metagenome. **International Journal of Peptide Research and Therapeutics** 19:331–336 (IF: 0.90)
 54. Jayashree S, Pushpanathan M, **Rajendhran J** and Gunasekaran P (2013) Analysis of microbial diversity and phylogeny of bacterial population in buttermilk, a fermented milk product, employing 16S rRNA-based pyrosequencing. **Food Biotechnology** 27:213–221 (IF: 0.56)
 55. Hemalatha D, **Rajendhran J** and Gunasekaran P (2013) A simple method for selective removal of human DNA from oral microbiome for functional metagenomic applications. **Journal of Scientific and Industrial Research** 72: 572-576. (IF: 0.55)
 56. Pushpanathan M, Gunasekaran P and **Rajendhran J** (2013) Antimicrobial peptides: Versatile biological properties. **International Journal of Peptides** 2013: 675391
 57. Ponraj P, Shankar M, Ilakiam D, **Rajendhran J** and Gunasekaran P (2013) Influence of periplasmic oxidation of glucose on pyoverdine synthesis in *Pseudomonas putida* S11. **Applied Microbiology and Biotechnology** 97: 5027–5041 (IF: 3.42)
 58. Shankar M, Ponraj P, Ilakiam D, **Rajendhran J** and Gunasekaran P (2013) Inactivation of the transcriptional regulator encoding gene *sdhA*, enhances rice root colonization and biofilm formation in *Enterobacter cloacae* GS1. **Journal of Bacteriology** 195: 39–45 (IF: 3.19)
 59. Sundarakrishnan B, Pushpanathan M, Jayashree S, **Rajendhran J**, Sakthivel N, Jayachandran S and Gunasekaran P (2012) Assessment of Microbial Richness in Pelagic Sediment of Andaman Sea by bacterial tag encoded FLX titanium amplicon pyrosequencing (bTEFAP). **Indian Journal of Microbiology** 52: 544–550 (IF: 1.29)
 60. Dinakaran V, Shankar M, Jayashree S, Rathinavel A, Gunasekaran P and **Rajendhran J** (2012) Genome Sequence of *Staphylococcus arlettae* strain CVD059 isolated from the circulation of a cardiovascular disease patient. **Journal of Bacteriology** 194: 6615–6616 (IF: 3.14)
 61. Pushpanathan M, **Rajendhran J**, Jayashree S, Sundarakrishnan B, Jayachandran S and Gunasekaran P (2012) Direct cell penetration of the antifungal peptide, MMGP1, in *Candida albicans*. **Journal of Peptide Science** 18: 657–660 (IF: 1.97)
 62. Pushpanathan M, **Rajendhran J**, Jayashree S, Sundarakrishnan B, Jayachandran S and Gunasekaran P (2012) Identification of a novel antifungal peptide with chitin-binding property from marine metagenome. **Protein & Peptide Letters** 19: 1289-1296 (IF: 0.96)
 63. Ponraj P, Shankar M, Ilakiam D, **Rajendhran J** and Gunasekaran P (2012) Genome sequence of the plant growth-promoting rhizobacterium, *Pseudomonas putida* S11. **Journal of Bacteriology** 194: 6015 (IF: 3.14)
 64. Shankar M, Ponraj P, Ilakiam D, **Rajendhran J** and Gunasekaran P (2012) Genome sequence of the plant growth promoting bacterium *Enterobacter cloacae* GS1. **Journal of Bacteriology** 194: 4479 (IF: 3.14)
 65. Dinakaran V, John L, Rathinavel A, Gunasekaran P and **Rajendhran J** (2012) Prevalence of bacteria in

- the circulation of cardiovascular disease patients, Madurai, India. *Heart, Lung and Circulation* 21: 281–283 (IF: 2.02)
66. Anand TD, Rajesh T, **Rajendhran J** and Gunasekaran P (2012) Superantigen profiles of *emm* and *emm*-like typeable and nontypeable pharyngeal streptococcal isolates of South India. *Annals of Clinical Microbiology and Antimicrobials* 11: 3. (IF: 2.37)
67. Manjula A, Sathyavathi S, Gunasekaran P and **Rajendhran J** (2011) Comparison of seven methods of DNA extraction from termitarium for functional metagenomic DNA library construction. *Journal of Scientific and Industrial Research* 70: 945-951. (IF: 0.55)
68. Jayashree S, **Rajendhran J**, Jayaraman K, Kalaichelvan G and Gunasekaran P (2011) Improvement of riboflavin production by *Lactobacillus fermentum* isolated from yoghurt. *Food Biotechnology*. 25: 240-251. (IF: 0.56)
69. **Rajendhran J** and Gunasekaran P (2011) Microbial phylogeny and diversity: Small subunit ribosomal RNA sequence analysis and beyond. *Microbiological Research* 166: 99-110. (IF: 3.03)
70. **Rajendhran J** and Gunasekaran P (2010) Human Microbiomics. *Indian Journal of Microbiology* 50: 109-112. (IF: 1.29)
71. Karuppanapandian T, Wang HW, Karuppudurai T, **Rajendhran J**, Kwon M, Jang CS, Kim S -H, Manoharan K and Kim W (2010) Efficiency of RAPD and ISSR markers in assessing genetic diversity and relationships in black gram (*Vigna mungo* L. Hepper) varieties. *Canadian Journal of Plant Sciences* 90: 443-452. (IF: 0.86)
72. **Rajendhran J** and Gunasekaran P (2009) Human Genomics and Microbiomics: the post-genomics scenario. *Current Science* 97: 140-141. (IF: 0.84)
73. Senthilkumar V, **Rajendhran J**, Busby SJW and Gunasekaran P (2009) Characterization of multiple promoters and transcript stability in the *sacB-sacC* gene cluster in *Zymomonas mobilis*. *Archives of Microbiology* 191: 529–541. (IF: 1.60)
74. **Rajendhran J** and Gunasekaran P (2008) Strategies for accessing soil metagenome for desired applications. *Biotechnology Advances* 26: 576-590. (IF: 10.59)
75. **Rajendhran J** and Gunasekaran P (2007) Cloning, expression and characterization of penicillin G acylase from *Bacillus badius*. *Journal of Bioscience and Bioengineering* 103, 457-463. (IF: 2.24)
76. **Rajendhran J** and Gunasekaran P (2007) Application of Cross-linked Enzyme Aggregates of *Bacillus badius* penicillin G acylase for the production of 6-aminopenicillanic acid. *Letters in Applied Microbiology* 44, 43-49. (IF: 1.57)
77. **Rajendhran J** and Gunasekaran P (2004) Recent Biotechnological Interventions for Developing Improved Penicillin G Acylases. *Journal of Bioscience and Bioengineering*. 97, 1-13. (IF: 2.24)
78. **Rajendhran J**, Krishnakumar V and Gunasekaran P (2003) Production of Penicillin G acylase from *Bacillus* sp.: Effect of medium components. *World Journal of Microbiology and Biotechnology* 19, 107-110. (IF: 1.65)
79. **Rajendhran J**, Krishnakumar V and Gunasekaran P (2002) Optimization of a fermentation medium for the production of Penicillin G acylase from *Bacillus* sp. *Letters in Applied Microbiology*. 35, 523-527. (IF: 1.57)

PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

1. **Rajendhran J.** Environmental Genomics. National Conference on Bioremediation-A solution to environmental cleanup. Vijayaraje Institute of Science and Management (VISM), Gwalior, 25th to 26th November, 2017.
2. Santha Kalaikumari S , Vennila T , Chandra Raj K, Gunasekaran P, **Rajendhran J.** Statistical analysis of media components for keratinase production from *Bacillus paralicheniformis* MKU3 and study of its application in poultry feather hydrolysis and leather processing. International Conference on Emerging trends in Biotechnology for Waste Conservation (ETBWC), XIV Annual Convention of The Biotech Research Society (BRSI). CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur. 8th -10th October, 2017
3. Sujitha S, Vishnu US, Karthikeyan R, Sankarasubramanian J, Gunasekaran P, Jacqueline A, **Rajendhran J.** Genomic insights into pathogenicity of *Streptococcus mutans* B14 – genetic determinants of virulence properties. International Conference On Environment, Genes, Health & Diseases. Bharathiar University, Coimbatore. 22nd – 24th August, 2017.
4. **Rajendhran J.** Human Microbiome and Systemic Diseases. International Conference on Microbiome in Health, Disease and Environment. Central Inter-Disciplinary Research Facility, Sri Balaji Vidyapeeth, Puducherry, March 3-4, 2017.
5. Karthikeyan R, Gunasekaran P and **Rajendhran J.** Whole genome sequence analysis and identification of potential vaccine candidates against *Listeria monocytogenes* through reverse vaccinology. National Conference on Innovations in Modern Biology & 48th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2017.
6. Vishnu US, Sankarasubramanian J, Gunasekaran P and **Rajendhran J.** Reconstruction of regulatory networks of *Brucella* spp.: A Genomics based approach. National Conference on Innovations in Modern Biology & 48th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2017.
7. Sankarasubramanian J, Vishnu US, Gunasekaran P and **Rajendhran J.** Genome wide identification and structural analysis of periplasmic binding proteins from *Brucella abortus*. National Conference on Innovations in Modern Biology & 48th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2017.
8. Ranjani J Gunasekaran P and **Rajendhran J.** Essential genes of *Pseudomonas aeruginosa* PAO1 for adhesion and invasion of rat cardiomyocytes, H9C2. National Conference on Innovations in Modern Biology & 48th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2017.
9. Kalaikumari SS, Vennila T, Raj KC, Gunasekaran P and **Rajendhran J.** Large-scale production of keratinase from *Bacillus paralicheniformis* MKU3 and its application in poultry feather hydrolysis and leather processing. National Conference on Innovations in Modern Biology & 48th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2017.
10. **Rajendhran J.** Genomic insights into the biofilm formation by *Pseudomonas aeruginosa* PAO1. International Conference on Current Trends in Biotechnology. Vellore Institute of Technology, Vellore. 8-10th December 2016.
11. Sivakumar R, Ranjani J, Gunasekaran P and **Rajendhran J.** Genome wide identification of *Pseudomonas aeruginosa* PGPR2 genes essential for root colonization in maize. International Conference on Current Trends in Biotechnology. Vellore Institute of Technology, Vellore. 8-10th December 2016.

12. Raj AM, Gunasekaran P and **Rajendhran J**. Cloning, Expression and Characterisation of endoglucanase gene from *Bacillus licheniformis* MKU3. International Conference on Current Trends in Biotechnology. Vellore Institute of Technology, Vellore. 8-10th December 2016.
13. **Rajendhran J**. Genome guided designing of diagnostics for infectious diseases. 30th UGC-NRCBS Winter School on Advances in Molecular Diagnostic techniques: Biochemistry & Immunology, MKU, 7th December 2016
14. **Rajendhran J**. Metagenomics. Refresher Course in Biology, MKU, 7th December 2016
15. **Rajendhran J**. Recombinant Enzymes. Refresher Course Biology, MKU, 7th December 2016
16. Karthikeyan R, Gunasekaran P and **Rajendhran J**. Molecular virulence determinants of foodborne pathogen *Listeria monocytogenes* isolated from raw milk. 57th Annual Conference & International Symposium of Association on Microbiologists of India. Guahati University, Guwahati. 24-27th November 2016.
17. Sankarasubramanian J, Vishnu US, Gunasekaran P and **Rajendhran J**. Genome-scale metabolic network reconstruction of *Brucella abortus* 2308. Brucellosis 2016 International Research Conference New Delhi, India. 17-19th November 2016.
18. Vishnu US, Sankarasubramanian J, Gunasekaran P and **Rajendhran J**. Genome-scale reconstruction of transcriptional regulatory networks of *Brucella*. Brucellosis 2016 International Research Conference New Delhi, India. 17-19th November 2016.
19. **Rajendhran J**. Basic working principles and applications of PCR. UGC-NRCBS workshop on Research Methodology, MKU, 15th November 2016.
20. Sivakumar R, Gunasekaran P and **Rajendhran J**. Inactivation of homogentisate dioxygenase (*hmgA*) enhances root colonization of *Pseudomonas putida* S11 on maize. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
21. Kalaikumari S, **Rajendhran J** and Gunasekaran P. Identification of protease genes in the genome of *Bacillus licheniformis* MKU3. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
22. Ranjani J Gunasekaran P and **Rajendhran J**. Pseudouridine synthase (*truB*) is an essential gene for biofilm formation by *Pseudomonas aeruginosa*. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
23. Goutham, Gunasekaran P and **Rajendhran J**. Engineering signal peptides for enhanced secretion of cellulolytic enzymes in *Bacillus subtilis*. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
24. Karthikeyan R, Gunasekaran P and **Rajendhran J**. Comparative genome analysis and virulence potential of *Listeria monocytogenes* sv 4b strain. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
25. Vishnu U.S, Sankarasubramanian J, Gunasekaran P and **Rajendhran J**. Identification of OtpR regulated sRNAs in *Brucella melitensis* expressed under acidic stress and their roles in pathogenesis and metabolism. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
26. Sankarasubramanian J, Vishnu U.S, Gunasekaran P and **Rajendhran J**. Computational prediction of host like proteins in *Brucella abortus* and their interactions with *Bos taurus* proteome. 47th Aqua-Terr Annual Conference. Madurai Kamaraj University, Madurai. 27-28th February 2016.
27. **Rajendhran J**. Metagenomics and Human Microbiomics. National workshop on Microbial Omics: From Genome to Proteome (MOGP-2016), Alagappa University, Karaikudi, Feb 24-26, 2016.

28. **Rajendhran J.** Genes essential for biofilm formation by *Pseudomonas aeruginosa* PAO1. Conference on Microbial Biofilms (CoMB 2016). SASTRA University, Thanjavur, Jan 29-30, 2016.
29. Karthikeyan R, Gunasekaran P and **Rajendhran J.** Host pathogen interactions: in vitro and in vivo models for assessing the pathogenicity of food borne pathogen *Listeria monocytogenes* isolated from milk and milk products. 56th Annual Conference of AMI, Jawaharlal University, New Delhi, December 07 - 10, 2015 (**Conferred AMI-Dr. Rana Memorial Best Poster Award**).
30. **Rajendhran J.** Circulating human microbiome and cardiovascular diseases. DBT-Sponsored National conference on Community Microbial Consortia and the Human holobiont – Implications of yet-unculturable Microorganisms in Systemic health, Disease & Personalized Medicine. The American College, Madurai, Dec 7-8, 2015.
31. Santha Kalaikumari S, Gunasekaran P and **Rajendhran J** Screening, cloning and expression of serine protease genes of *Bacillus licheniformis* MKU3. New Horizons in Biotechnology, Nov 22-25, 2015 Trivandrum, India
32. Ranjani J Gunasekaran P and **Rajendhran J.** Essential genes of *Pseudomonas aeruginosa* PAO1 for biofilm formation. New Horizons in Biotechnology, Nov 22-25, 2015 Trivandrum, India
33. Sankarasubramanian J, Vishnu U.S, Gunasekaran P and **Rajendhran J.** Genome-wide SNP-based phylogenetic analysis of *Brucella*. New Horizons in Biotechnology, Nov 22-25, 2015 Trivandrum, India
34. Vishnu U.S, Sankarasubramanian J, Gunasekaran P and **Rajendhran J.** Identification of novel vaccine candidates against *Brucella melitensis* through reverse vaccinology approach New Horizons in Biotechnology, Nov 22-25, Trivandrum, India
35. Karthikeyan R, Vishnu U.S, Gunasekaran P and **Rajendhran J.** Whole genome sequencing and comparative genome analysis of virulent and avirulent strains of *Listeria monocytogenes* isolated from milk and milk products. Indian Genetics Conference, SRM University, Chennai, March 04 - 06, 2015 (**Conferred Best Poster Award**).
36. **Rajendhran J.** Genomic insights into the host specificity of *Brucella* spp. New Horizons in Biotechnology, Trivandrum, Nov 22-25, 2015.
37. **Rajendhran J.** Metagenomics Applications Workshop on Metagenomics and Bioinformatics", Periyar University, Salem, 10th September, 2015.
38. **Rajendhran J.** Discovery of new drugs from unknown microbes through metagenomics approach. "SERB Sponsored National Conference on Recent Development of Bio-Inorganic Chemistry in Medicinal fields", Mohamed Sathak Engineering College, Kilakarai, 29th August 2015.
39. **Rajendhran J.** Metagenomics – An Overview. Microfiesta, The American College, Madurai, 15th July, 2015.
40. Ramani G, Meera B, Chinnathambi V, **Rajendhran J**, Rao M and Gunasekaran P. Heterologous expression of beta-glucosidase of *Penicillium funiculosum* NCLI and enzymatic characterization. International Conference on emerging Trends in Biotechnology, XI Convention of Biotech Research Society, India, Indo-Italian Workshop on Industrial Pharmaceutical Biotechnology, 6-9th November, JNU, New Delhi, 2014.
41. **Rajendhran J.** Metagenomics - A tool to assess the hidden microbial diversity. State Level Seminar on Biodiversity's Domino Effect on Sci-Fi world. N.M.S.S.V.N. College, Madurai 1st October, 2014.
42. Sankarasubramanian J, Pushpanathan M, Vishnu U.S, Pooja S, Gunasekaran P and **Rajendhran J.** Genome sequencing and annotation of *Bacillus licheniformis* MKU3. SciGenom Conferences: NextGen Genomics & Bioinformatics Technologies (NGBT) Conference, CSIR-IGIB, New Delhi, India, 14-16th November, 2013

43. **Rajendhran J.** Circulating human microbiome in rheumatic valvular heart disease patients. International Conference on Industrial Biotechnology, IX Convention of Biotech Research Society, India, Indo-Italian Workshop on Food Biotechnology, Punjabi University Patiala, India 21-23rd November, 2012
44. Hemalatha D, **Rajendhran J** and Gunasekaran P. A simple method for selective removal of human DNA from oral microbiome for functional metagenomic applications. International Conference on Industrial Biotechnology, IX Convention of Biotech Research Society, India, Indo-Italian Workshop on Food Biotechnology, Punjabi University Patiala, India 21-23rd November, 2012
45. Sathyavathi S, Manjula A, **Rajendhran J**, Gunasekaran P. Biosynthesis of mercury sulphide nanoparticles using *Bacillus cereus* MRS-1 and its characterization. International Conference on Industrial Biotechnology, IX Convention of Biotech Research Society, India, Indo-Italian Workshop on Food Biotechnology, Punjabi University Patiala, India 21-23rd November, 2012
46. Sundarakrishnan B, Pushpanathan M, Jayashree S, **Rajendhran J**, Sakthivel N, Jayachandran S and Gunasekaran P Optimization of extracellular L-asparaginase production from *Bacillus* sp isolated from pelagic sediment, by response surface methodology. International Conference on Industrial Biotechnology, IX Convention of Biotech Research Society, India, Indo-Italian Workshop on Food Biotechnology, Punjabi University Patiala, India 21-23rd November, 2012
47. Illakkiam D, Anuj NL, Ponraj P, Shankar M, **Rajendhran J**, Gunasekaran P. Proteolytic enzyme mediated antagonistic potential of *Pseudomonas aeruginosa* against *Macrophomina phaseolina*. International Conference on Industrial Biotechnology, IX Convention of Biotech Research Society, India, Indo-Italian Workshop on Food Biotechnology, Punjabi University Patiala, India 21-23rd November, 2012
48. Pushpanathan M, **Rajendhran J** and Gunasekaran P. Functional Characterization of a novel antifungal peptide by flow cytometry. 43rd Aqua-Terr Annual Conference on Biological Sciences. Madurai Kamaraj University, Madurai. 28th February 2012.
49. Sundarakrishnan B, **Rajendhran J**, Jayachandran S and Gunasekaran P. Isolation, production and characterization of L-asparaginase from marine bacteria. 43rd Aqua-Terr Annual Conference on Biological Sciences. Madurai Kamaraj University, Madurai. 28th February 2012.
50. Anand TD, Rajesh T, **Rajendhran J** and Gunasekaran P. Molecular Diversity of Virulence Factors of Pharyngeal Streptococcal isolates of South India. 43rd Aqua-Terr Annual Conference on Biological Sciences. Madurai Kamaraj University, Madurai. 28th February 2012.
51. **Rajendhran J.** Patho-Adaptive Mutagenesis in Bacteria. XXIV UGC-NRCBS Winter School on Mutagenesis: A powerful tool in bacterial system, 11th July 2012.
52. **Rajendhran J.** Genomics & Bioinformatics. State Level Seminar on Recent Trends in Biotechnology and Bioinformatics, Arulmigu Palaniandavar College of Arts and Culture, Palani, 30th March, 2012.
53. **Rajendhran J.** The New Science of Metagenomics. Plenary Lecture, National Symposium on "New Vistas in Molecular Medicine", Kalasalingam University, Krishnankoil, 28th February, 2012.
54. **Rajendhran J.** Identification and characterization of a novel antifungal peptide from marine metagenome. National Conference on Recent Advances in Biotechnological Research, Kamaraj College of Engineering and Technology, Virudhunagar, 23-25 February, 2012
55. **Rajendhran J.** PCR Applications in Microbial Genome Typing and Diversity Analysis. National Training Program on Metagenomics: A Practical Approach to Molecular Taxonomic Profiling, National Bureau of Agriculturally Important Microorganisms (ICAR), Mau (UP), 22nd November to 1st December, 2011.
56. Pushpanathan M, **Rajendhran J** and Gunasekaran P. Functional characterization of a novel antifungal peptide MMGP1 from marine metagenome. International Conference on New Horizons in

- Biotechnology, Trivandrum, Kerala, India. 21-24th November, 2011.
57. Manjula A, Sathyavathi S, Pushpam PL, **Rajendhran J**, and P Gunasekaran. Cloning and sequencing of *gslp1* esterase from goat skin metagenome. International Conference on New Horizons in Biotechnology, Trivandrum, Kerala, India. 21-24th November, 2011.
 58. Dinakaran V, Punitha A, Gunasekaran P and **Rajendhran J**. Adhesion properties and antibiotic susceptibility of coagulase negative Staphylococci (CoNS) isolated from cardiovascular patients. International Conference on New Horizons in Biotechnology, Trivandrum, Kerala, India. 21-24th November, 2011.
 59. Dinakaran V, Rathinavel A. Gunasekaran P and **Rajendhran J**. Detection and characterization of bacteremia in rheumatic heart disease patients. International Conference on Genomics Sciences, VII Convention of Biotech Research Society, India, Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology, Madurai Kamaraj University, Madurai, India 12-14th, November, 2010
 60. Manjula A, **Rajendhran J** and Gunasekaran P. Comparison of seven methods of DNA extraction from termitarium for functional metagenomic DNA library construction. International Conference on Genomics Sciences, VII Convention of Biotech Research Society, India, Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology, Madurai Kamaraj University, Madurai, India 12-14th, November, 2010
 61. Pushpanathan M, **Rajendhran J** and Gunasekaran P. Identification and characterization of a novel gene coding for alkaline protease from metagenome of marine environment. International Conference on Genomics Sciences, VII Convention of Biotech Research Society, India, Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology, Madurai Kamaraj University, Madurai, India 12-14th, November, 2010
 62. Vignesh S.P., Aparna S. Pushpanathan M, **Rajendhran J**. and Gunasekaran P. Cloning of novel hydrolases from marine metagenome. Aqua-Terr Annual Symposium. Madurai Kamaraj University, Madurai. 10th March 2010.
 63. Pushpanathan M, **Rajendhran J**. and Gunasekaran P. Extracellular production of *Alcaligenes faecalis* penicillin G acylase in *Escherichia coli* and its one-step purification. 50th Annual Conference of the Association of Microbiologists of India. National Chemical Laboratory, Pune, Dec 15 to 18, 2009.
 64. **Rajendhran J**. Metagenomics and its environmental applications. National Seminar on "Current Advances in Applied Genetics & Bioethics", Nirmala College for Women, Coimbatore, Sep 18th & 19th, 2009.
 65. **Rajendhran J**. Development of recombinant penicillin acylase for 6-aminopenicillanic acid production. 48th Annual Conference of Association of Microbiologists of India, Indian Institute of Technology, Bhopal, India. 18-21, December 2007 (**AMI-Young Scientist Award Lecture**).
 66. **Rajendhran J**. and Gunasekaran P. Improved production of *Bacillus badius* penicillin G acylase in *Escherichia coli* by the coexpression of tRNA genes. International Conference on New Horizons in Biotechnology & 4th convention of BRSI, Trivandrum, India. 26-29th November 2007.
 67. Prabhu P., **Rajendhran J**. and Gunasekaran P. Cloning and overexpression of penicillin G acylase (*pac*) gene of *Thermus thermophilus* in *Escherichia coli*. Aqua-Terr Annual Symposium. Madurai Kamaraj University, Madurai. 10th March 2007.
 68. Divya R., **Rajendhran J**. and Gunasekaran P. Expression of *Bacillus badius pac* gene in *Bacillus megaterium* for the production of extracellular penicillin G Acylase. Aqua-Terr Annual Symposium. Madurai Kamaraj University, Madurai. 10th March 2007.
 69. **Rajendhran J**. and Gunasekaran P. Strategies for the improved production of *bacillus badius* penicillin

G acylase. Origene 2007, International Conference on Recent Trends in Biotechnology, Kalasalingam University, Krishnan Kovil, India. 5-6th January 2007 (**Conferred Best Oral Presentation Award**).

70. **Rajendhran J.** and Gunasekaran P. Extracellular production of *Bacillus badius* penicillin G acylase using *Pichia pastoris* expression system. 47th Annual Conference of Association of Microbiologists of India, Barkatullah University, Bhopal, India. 6-8 December 2006.
71. **Rajendhran J.** and Gunasekaran P. Independent expression of *Bacillus badius* penicillin acylase subunits improves the expression in *Escherichia coli*. 3rd convention of BRSI & International Conference on exploring horizons in Biotechnology - a Global venture, Sardar Patel University, Vallabh Vidyanagar, India. 2-4th November 2006.
72. **Rajendhran J.** and Gunasekaran P. Molecular cloning and characterization of gene coding for penicillin G acylase from *Bacillus badius*. First conference of Biotechnology Research Society of India, North Maharashtra University, Jalgaon, India. 25-27th November 2004.
73. **Rajendhran J.** and Gunasekaran P. Cloning and partial sequencing of *pac* gene of *Bacillus* sp. International Conference on Interface of Chemistry and Biology, Regional Research Laboratory, Trivandrum, India. 28-30th April 2003.
74. Gunasekaran P. and **Rajendhran J.** Biochemical engineering of bacterial penicillin acylases. International Conference on Interface of Chemistry and Biology, Regional Research Laboratory, Trivandrum, India. 28-30th April 2003.
75. **Rajendhran J.**, Krishnakumar V. and Gunasekaran P. Application of immobilized cells of *Bacillus* sp. for the production of 6-aminopenicillanic acid. 43rd Annual Conference of Association of Microbiologists of India, CCS Haryana agricultural University, Hisar, India. 11-13th December 2002.
76. **Rajendhran J.** and Pandian RS. Vector potential of *Musca domestica* in an urban area. Fourth International Symposium on Vectors and Vector borne Diseases. Defense Research and Development Establishment, Gwalior, India. 18-20th February 1999.
77. **Rajendhran J.** and Pandian RS. Occurrence of spatial variation in the pathogens isolated from the houseflies. Symposium on Vectors and Vector borne diseases, The American College, Madurai, India. 29-30th January 1999.
78. **Rajendhran J.** and Pandian RS. Determination of antimicrobial effectiveness of antibiotics against bacterial pathogens isolated from urban houseflies. 39th Annual Conference of Association of Microbiologists of India, Mangalore, India. 5-6th December 1998.
79. Pandian RS. and **Rajendhran J.** Occurrence of Biodiversity among microbial pathogens isolated from urban houseflies. 39th Annual Conference of Association of Microbiologists of India, Mangalore, India. 5-6th December 1998.
80. **Rajendhran J.** and Pandian RS. Rhythm in the foraging behaviour of *Musca domestica* *nebulosa* (FABR). Third Symposium on Vectors and Vector borne Diseases. Puri, India. 30th May-1st June 1998.
81. **Rajendhran J.** and Pandian RS. Isolation of bacterial pathogens from the proboscis of *Musca domestica*. Third Symposium on Vectors and Vector borne Diseases. Puri, India. 30th May-1st June 1998.
82. **Rajendhran J.** and Navaneethakannan K. Antibacterial activity of some selected medicinal plants. Aqua-Terr Annual Symposium. Madurai Kamaraj University, Madurai. 27-28th February 1998.

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
Conference	49 th Aqua-Terr Annual Conference on Biological Sciences	27 & 28 February, 2018	SBS, MKU	Organizing Secretary	ATSBS Society
Workshop	Brucella Bioinformatics	8-12 December, 2017	SBS, MKU	Course Director	DBT
Winter School	Functional & Integrative Genomics	18 – 31 January, 2017	SBS, MKU	Convener	UGC-NRCBS
Workshop	3 rd workshop on "Brucella Genomics	14 – 18 March, 2016.	SBS, MKU	Course Director	DBT
Workshop	2 nd workshop on "Brucella Genomics	13 – 17 October, 2014.	SBS, MKU	Course Director	DBT
Workshop	Brucella Genomics	8 – 12 July, 2013	SBS, MKU	Course Director	DBT
Onsite Workshop	Onsite Workshop on Recombinant DNA Technology and Bioinformatics	24 th Sep to 5 th Oct, 2012	TVU, Vellore	Convener	UGC-NRCBS
Winter School	Environmental Genomics	27 th Dec 2010 – 10 th Jan 2011	SBS, MKU	Organizing Secretary	UGC-NRCBS
Summar School	PCR Applications	17-31, March, 2010	SBS, MKU	Convener	UGC-NRCBS
Summar School	Recombinant DNA Technology	23-27 June, 2009	SBS, MKU	Convener	UGC-NRCBS
Winter School	Metagenomics	2-16, March 2009	SBS, MKU	Organizing Secretary	UGC-NRCBS
Winter School	Microbial Genome Typing	10-24 December 2008	SBS, MKU	Organizing Secretary	UGC-NRCBS

BOOK PUBLISHED

Title of the Book / Chapter	Author	Publisher	Year	ISBN Number
Fundamentals of Molecular Biology. In: Current Developments in Biotechnology and Bioengineering, Volume 1. Fundamentals of Biotechnology & Bioengineering	Srinivasan S, Gunasekaran P and Rajendhran J	Elsevier	2016	978-0-444-63668-3
Functional Genomics of Pathogenesis. In: Current Developments in Biotechnology and Bioengineering, Volume 2. Functional Genomics and Metabolic Engineering	Ranjani J, Gunasekaran P and Rajendhran J	Elsevier	2016	978-0-444-63668-3
A closer look at Enterobacter sp. as plant growth promoting rhizobacteria. In: Plant-Microbe Interactions (Eds: Ramasamy K & Kumar K)	Shankar M, Rajendhran J and Gunasekaran P	New India Publishing Agency, India.	2015	978-93-83305-83-4
Microbial Bioremediation: A Metagenomic Approach. In: Microbial biodegradation and bioremediation. (Ed: Das S)	Pushpanathan M, Jayashree S, Gunasekaran P and Rajendhran J	Elsevier	2014	978-01-28000-21-2
Role of Infectious Agents in Cardiovascular Diseases. In: Advances in Industrial Biotechnology. (Eds: Singh RS, Pandey A & Larroche C)	Dinakaran V, Rathinavel A, Gunasekaran P and Rajendhran J	IK International Publishing House Pvt. Ltd., New Delhi	2013	978-93-82332-76-3
Analysis of Microbial Diversity and Construction of Metagenomic Library. In: Analyzing Microbes, Springer Protocols. (Ed: Arora DK, Das S & Sukumar M)	Rajesh T, Rajendhran J and Gunasekaran P	Springer Heidelberg, Germany	2013	978-3-642-34409-1
Genomic Technologies in Environmental Bioremediation, In: Microbes in Environmental Management. (Ed: Satyanarayana T).	Rajesh T, Rajendhran J and P. Gunasekaran	Springer New York, USA	2012	978-94-007-2228-6
Alternate Expression Systems for High-level expression of Membrane Active Antibacterial Proteins. In: Advances in Bioprocesses in Food Industries ssion Systems for High-level expression of Membrane Active Antibacterial Proteins. In:	Rajesh T, Anthony T, Rajendhran J and Gunasekaran P	Asiatech Publishers, New Delhi,	2011	81-87680-28-8

Advances in Bioprocesses in Food Industries				
Methods in Metagenomic DNA, RNA, and Protein Isolation from Soil, In: Handbook of Molecular Microbial Ecology: Metagenomics in Different Habitats (Ed: Frans J. de Bruijn)	Rajesh T, Rajendhran J , Pushpam P.L and Gunasekaran P	John Wiley & Sons, Inc. New Jersey, USA	2011	978-0-470-64719-6

MEMBERSHIP IN ACADEMIC BODIES

1. Member – Board of Studies in Zoology, Vivekananda College, Madurai
2. Member – Board of Studies in Microbiology & Immunology, The American College, Madurai
3. Member – Board of Studies in Zoology, N.M.S.S.V.N. College, Madurai
4. Member – Board of Studies in Environmental Studies, N.M.S.S.V.N. College, Madurai
5. Member – Board of Studies in Microbiology, V.H.N.S.N. College, Virudhunagar
6. Member - Board of Studies in Microbial Gene Technology, MKU

MEMBERSHIP IN PROFESSIONAL BODIES

1. Member – Editorial Board, Journal of Genetics and Genomes
2. Member – Editorial Board, Journal of Microbiology and Genetics
3. Member – American Society for Microbiology (ASM)
4. Life Member – Association of Microbiologists of India (AMI)
5. Life Member – Biotechnology Research Society of India (BRSI)
6. Life Member – Aqua-Terr Society for Biological Sciences (ATSBS)

ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period (Month & Year)

CONTACT

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